AGRICULTURAL OUTLOOK

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The New Central Europe Part II

AGRICULTURAL OUTLOOK







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News of Whitefly Pest, Central Europe, U.S.-Mexico Relations, Soviet Food Aid, and Farmer Mac

For U.S. farmers, 1991 has been a stark reminder that nature ultimately has the upper hand in agriculture. In June and July, farmers in the Com Belt coped with dry weather. In the Delta, heavy spring rains delayed soybean, cotton, and rice plantings. Lack of moisture in Kansas early this fall means the winter wheat crop there is off to a poor start.

In California, where farmers are still wrestling with a 5-year dry spell, a whitefly infestation is wreaking havoe on melons and winter vegetables in the Imperial Valley, America's winter salad bowl. Based on industry reports, California farmers face losses of 85-95 percent of the fall melon crop, and yields 25-50 percent below normal for winter crops of broccoli, cauliflower, and lettuce.

The resulting cut in supplies of winter vegetables will lead to higher retail prices for consumers through early 1992. On the other hand, abundant supplies of pork and poultry will lower retail prices for those foods during the holiday season and continuing through early next year.

This month's Agricultural Outlook wraps up a two-part series on agriculture in the new economics of Central and Eastern Europe. As free markets replace central planning in the region, seven very unique economics are emerging. Part II of the series examines developments in the Balkan states—Yugoslavia, Bulgaria, Romania, and Albania.

The political environment in these four countries—past and present—makes economic reform all the more challenging. Yugoslav farmers are caught up in civil unrest reflecting long-standing ethnic and national rivalries; Albania is overcoming 40 years of isolation; Romanian farmers are attempting to rebuild the country's self-sufficiency in agriculture after the damaging policies of the Ceausescu regime; and Bulgaria is forging ahead with agricultural reforms de-



spite slow progress in returning land to private ownership.

Events in these countries will eventually play a role in shaping global agricultural markets. Closer to home, implications of U.S. relations with Mexico are explored in a new five-part AO series.

At times the U.S. and Mexico appeared to have little in common besides their border, yet the economic interdependence of the two countries has a long history. Today, dissimilarities are bringing opportunities for greater integration in the areas of trade, the environment, and migration.

This month, the first installment provides a general overview of current and past economic relations. Parts II through V (beginning in March) take a closer look at agricultural relations, emphasizing trade, labor and investment, environmental issues, and a pending North American Free Trade Agreement.

Events in the Soviet Union continue to cloud the outlook for global grain trade. USDA puts the 1991/92 Soviet grain har-

vest at 175 million tons, down sharply from last season's 235 million. The lower production is raising demand for Soviet grain imports, as well as for credit to make purchases. On November 20, President Bush announced a new U.S. aid and credit package for the Soviets.

In spite of increased import demand from the Soviet Union, intense competition continues in several global commodity markets—notably wheat. The U.S. has countered price subsidies in global markets with the Export Enhancement Program (EEP), a targeted subsidy for U.S. exporters.

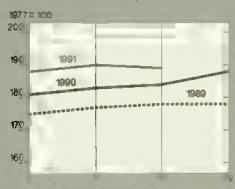
In fiscal 1991, USDA awarded over \$900 million to exporters in generic EEP certificates redeemable for government-held commodities. However, with current government inventories at low levels, USDA announced that as of November 7, bonuses will be awarded in cash rather than redeemable certificates.

Although wheat has been the chief EEP commodity, accounting for over 80 percent of fiscal 1991 bonuses, vegetable oil exports have also been assisted by the EEP and by other programs. Ironically, although the U.S. produces nearly 40 percent of the world's soybean oil. consuming on average 35 percent, the U.S. became a net importer of vegetable oil in 1990. AO traces this anomaly to developments in foreign markets and changing objectives of U.S. export programs.

Will Farmer Mac get off the ground? The Federal Agricultural Mortgage Corporation was authorized by Congress in 1987 to expand availability of long-term farm real estate credit at fixed rates to farmers. But expectations for Farmer Mac's secondary loan market are withering, due to economic and structural factors including weak demand for fixed-rate financing offered by Farmer Mac. Legislation is pending to make structural adjustments to the program and overcome some of the problems in launching a successful secondary market.

Prime Indicators

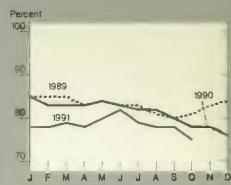
Index of prices paid by farmers



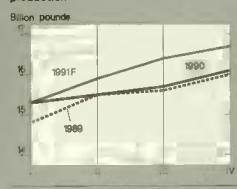
Index of prices received by farmers1



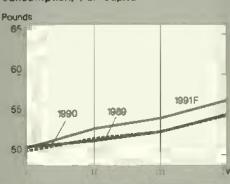
Ratio of prices received/prices paid



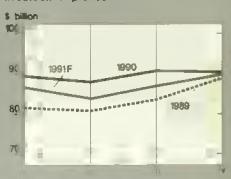
Total red meat & Poultry production?



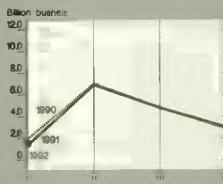
Red meat & poultry consumption, per capita^{2,3}



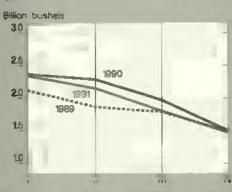
Cash receipts from livestock & products4



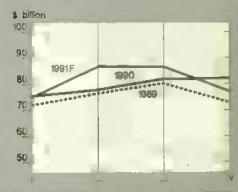
Corn beginning stocks5



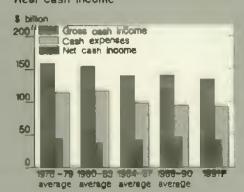
Corn disappearance5



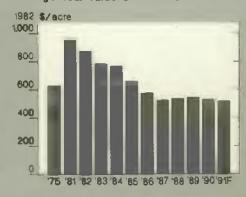
Cash receipts from crops4



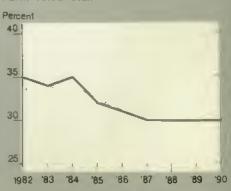
Real Cash income⁶



Average real value of farm real estate



Farm value/retail food costs



3 Retail weight. 4 Seasonally adjusted annual rate

For all farm products: *Calendar quarters Future quarters are forecasts for livestock, corn, and cash receipts: *IIISept.-Nov: IIIDec.-Feb; IIIMar,-May; IVIJune-Aug. Marketing years ending with year indicated.



Field Crops Overview

World coarse grain production is expected down 4 percent in 1991/92, with a 5-percent decline in the U.S. Despite the drop in U.S. production, exports of corn in 1991/92 started off strong due to exports of 88 million bushels to the USSR during September and October, compared with none to that destination a year ago. But export inspections to other countries in September and October were down over 7 percent.

Because of expectations for increased exports by China and reduced imports by Mexico, the 1991/92 U.S. corn export forecast as of mid-November was reduced to 1,58 billion bushels. This is 4.5 percent below last month's forecast and almost 9 percent below last year's estimated exports.

Global soybean output is projected up only 2 percent in 1991/92. The large expected rebound in Brazil from last season's poor crop accounts for much of the increase. The U.S. crop should encounter healthy demand, with soybean exports forecast 17 percent higher and domestic soybean meal use poised to set another record.

World wheat production in 1991/92 is forecast down sharply, with the Soviet Union and the U.S. accounting for most of the drop. U.S. exports are forecast to increase, although market share will decline with strong competition from large supplies in the EC, Canada, and smaller exporters. [For the latest U.S. crop conditions and outlook, see tables 17-19. The world outlook estimates are in table 23.]

Global Coarse Grains— Output, Consumption Down

Global coarse grain production in 1991/92 is projected to drop 4 percent to 802 million tons. Although production is forecast up in the EC, Eastern Europe, and Brazil, most other major producers expect declines. Global production of each of the major coarse grains—corn, sorghum, and barley—is forecast down.

Planting is underway in the Southern Hemisphere. In Argentina, farmers are expected to increase coarse grain area in response to an improved economic climate and expectations of better prices. However, com production there is forecast down 8 percent, at 7.2 million tons, because yields are likely to retreat from last year's record. Sorghum production is also expected to drop slightly for similar reasons.

The recent elimination of export taxes, and the government's steps to privatize transportation and port facilities, should improve Argentina's competitiveness. Despite the prospective drop in production, Argentina is expected to increase com exports by 14 percent to 4.2 million and sorghum by 23 percent to 1.6 million, because of large carryin stocks.

With production up in several key trading countries, global import demand is forecast down. Larger output is reducing importers' demand in the EC, Eastern Europe, and Mexico. World imports are projected at 83.2 million tons, off 2 percent. In addition, high production in China, a major exporter, and the expected increase in Argentine exports, are raising export competition.

At 46.9 million tons, U.S. exports and market share are also projected to drop somewhat from last year. But despite the slight decline, the U.S. retains more than half the market, at 56 percent.

U.S. Corn Exports Decline

U.S. feed grain production in 1991/92 is forecast at 218.5 million metric tons, up marginally from last month's projection, but down over 5 percent from 1990/91. Much of this year's production decline can be traced to dry weather in the Eastern Com Belt in June and early July, which reduced corn yields.

The forecast decline in 1991/92 corn outturn contrasts with the situation for sorghum and barley. November's corn production forecast—at just under 7.5 billion bushels—is down 6 percent from last year, while sorghum is up 1 percent from 1990/91's estimated crop, and barley is up almost 10 percent.

Harvest of domestic feed grains proceeded well ahead of schedule this fall. As of November 10, corn harvest in the 17 major producing states was 96 percent complete, 8 percentage points ahead of the 5-year average. Sorghum harvest was 95 percent complete, also about 8 points ahead of the 5-year average. This is the final date for feed grain crop progress reports this season.

Domestic feed grain use for 1991/92 will be supported by larger inventories of livestock in coming months and into 1992. The feed and residual component of feed grain use for 1991/92 is projected at 140 million metric tons, up marginally from last year, while wheat feeding is down and a record hay harvest is expected.

Exports of U.S. com in 1991/92 started off strong due to exports of 88 million bushels to the USSR during September and October, compared with none to that destination a year ago. But export inspections to other countries were down over 7 percent during September and October compared with a year earlier.

Because of expectations for increased exports by China and reduced imports by

Mexico, the 1991/92 U.S. corn export forecast as of mid-November was reduced to 1.58 billion bushels. This is over 4.5 percent below last month's forecast and about 9 percent below last year.

The weaker outlook for corn exports leads to a higher 1991/92 carryout than forecast last month. However, corn ending stocks in 1991/92, forecast at 1.28 billion bushels, are still at their lowest since 1983/84. Farm prices are forecast in the range of \$2.15 to \$2.55 per bushel.

Brazil's Soybean Crop Boosts Global Output

Global soybean output is projected up only 2 percent in 1991/92. The large rebound expected in Brazil from last season's poor crop accounts for much of the increase. Planting reports from Brazil suggest sufficient area to reach production of 17.5 million tons projected for 1991/92.

Although production in Argentina, the other major foreign producer, is projected to drop fractionally, new crop planting progress supports earlier expectations and estimated output remains at 10.75 million tons for 1991/92. However, the recent elimination of government price controls on grains and meats and elimination of statistical export taxes for all agricultural commodities may affect late plantings, with slight changes in the relative mix of crops.

Elimination of Argentina's statistical export taxes would normally encourage exports, but the smaller crop anticipated in 1991/92, along with reduced October-March inventories, is projected to shrink October-September soybean exports to 3.3 million tons from last year's 4.4 million. Global soybean exports, however, will rise, because U.S. exports are anticipated to advance sharply from 15.2 to 17.7 million tons, and a slight increase is expected for Brazil.

Projected world exports of soybean meal, on the other hand, are virtually unchanged. Although U.S. soymeal exports are expected to rise 15.3 percent above the previous year, soymeal exports

Soviet Aid & Credit Guarantees Announced November 20

On November 20, President Bush announced that an additional \$1.25 billion in credit guarantees will be made available for the Soviet Union under the Commodity Credit Corporation's GSM-102 export credit program.

As in September and October, the guarantees will cover all principal, as well as interest up to the prevailing 52-week Treasury bill rate. Of the total \$1.25 billion, \$500 million is available immediately, to be allocated for feed grains, wheat, and soybeans and soymeal. Additional amounts of \$250 million each will become available on the first of February, March, and April 1992.

The commodities purchased under the program will help provide a steady flow of food to the Soviet Union during this winter, and alleviate concerns arising from the much lower grain procurements. Based on harvest progress reports, USDA puts the Soviet grain crop estimate at 175 million tons, bunker weight, a sharp 26 percent below last season's 235 million. (Bunker weight includes excess moisture, while clean weight does not.)

More importantly, by the end of October, Soviet government procurements for urban and nonagricultural areas had reached only 39.1 million tons, 57 percent of last season's total. Very little procurement activity has occurred since that time, and the lower procurements have raised demand for Soviet grain imports. However, because of this year's financial, economic, and political crises, Soviet imports appeared unlikely without financial assistance from Western countries and other forms of import arrangements,

The President also announced that \$165 million in humanitarian food aid and some additional technical assistance would be provided to the Soviet Union. The technical assistance activities are designed to improve Soviet food production and distribution, and include plans for a demonstration farm operated by an American farm family. The food aid is targeted to vulnerable groups in the regions of Armenia and the Urals in the Russian republic—two areas expected to be hard hit by shortages in food supplies this winter.

from both Brazil and Argentina will drop slightly.

Healthy Demand for U.S. Soybeans & Products

As of November 17, the U.S. soybean harvest was virtually finished. Harvest in the 19 major producing states was 95 percent complete, 3 percentage points ahead of the 5-year average for that date. Due to favorable fall weather, the November production estimate—at 1.96 billion bushels—is 1.4 percent above October's forecast, and represents about a 2-percent increase over last year's production. If realized, November's production forecast will be the fifth-highest on record.

November's upward revision in production over October's forecast is entirely due to better-than-expected yields. Yields are now pegged at 33.5 bushels per acre, half a bushel above the forecast on October 1, but half a bushel below 1990/91. Record pod counts are being reported in some areas in the upper Midwest.

The larger-than-expected U.S. soybean crop should encounter healthy demand. Exports in 1991/92 are forecast at 650 million bushels, 17 percent above last year. The rise comes mainly at the expense of Brazil, where a drought-stricken 1990/91 crop makes soybean imports by that country necessary. U.S. domestic crush is forecast at 1.2 billion bushels, with domestic soybean meal use poised

to set another record in 1991/92, at 23.3 million tons.

The stronger outlook for soybean use is expected to lower 1991/92 carryout stocks to 315 million bushels, slightly below last year's level. Season-average prices for soybeans are forecast in the range of \$5 to \$6 a bushel, close to 1990/91's average of \$5.75 a bushel.

World Wheat Output Lower, Competition Sharp

World wheat production in 1991/92 is forecast down sharply from the high levels of 1990/91, but remains the second-largest historically. Forecast production declines in the Soviet Union and the U.S. account for most of the drop, but production in Australia and Argentina are also projected down 34 and 14 percent. While Canada and the EC produced record crops and their stocks are projected to build, stocks in the rest of the world are forecast down, tightening supplies and contributing to the expected rise in prices.

World trade is forecast at 104 million tons, 12 percent above 1990/91. Export prices (HRW No. 2, f.o.b gulf) rose 25 percent between July and November, fueled by increased imports by the Soviet Union, China, and others.

U.S. exports are projected at 30.5 million tons, up 8 percent from 1990/91. But U.S. market share is forecast to drop with sharp competition from the EC, Canada, and several smaller exporting countries.

Lack of Moisture Hurts Winter Wheat

Although 6 months remain in the 1991/92 U.S. wheat marketing year, the 1992/93 winter wheat crop has been receiving much of the attention. As of November 3, 91 percent of this crop had been seeded, compared with a 5-year average of 90 percent. However, dryness delayed germination and caused uneven emergence. As of November 17, 83 percent of the crop had emerged, 6 percentage points behind the 5-year average.

During September and October, parts of Kansas—which produced over one-fourth of the U.S. winter wheat crop in 1991/92—recorded no measurable precipitation for over 40 days. Significant moisture began arriving on October 27, but largely as snow, accompanied by bitter cold.

Although temperatures have moderated, crop conditions as of November 17 were much worse than normal and indicate that the crop is poorly established in many areas. On that date, 49 percent of the Kansas crop was rated poor or very poor. Overall, 17 percent of the winter wheat crop nationally fell in the poor or very poor range, while only 4 percent was rated excellent.

Since wheat in the Southern Plains is often grazed in the fall if emergence is good, the immediate effect of these conditions is to curtail grazing. In addition, a weak crop is more susceptible to adverse conditions.

The current 1991/92 crop, which was harvested this past spring and summer, is estimated at 1.98 billion bushels, down 28 percent from last year. With total use down only 3 percent, ending stocks in

1991/92 are forecast at 514 million bushels, the lowest since 1974/75.

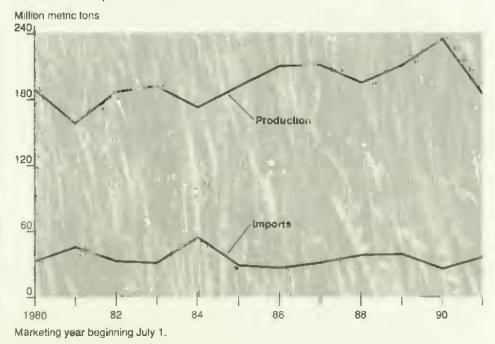
As a result, the potential size of the 1992/93 crop, as well as export prospects, will have an important effect on prices for the remainder of 1991/92. Price projections for 1991/92 are currently in the range of \$2.75-\$2.95, well above 1990/91's \$2.61.

Global Rice Trade Forecast Up

World rice production is projected down 3 percent, with China and India accounting for most of the decline. Adverse weather in Southeast Asia, notably a serious drought in Indonesia, has affected output. The Indonesian government is expected to import 450,000 tons of rice in calendar 1992, the most since 1983, to maintain stocks and to curb domestic price increases.

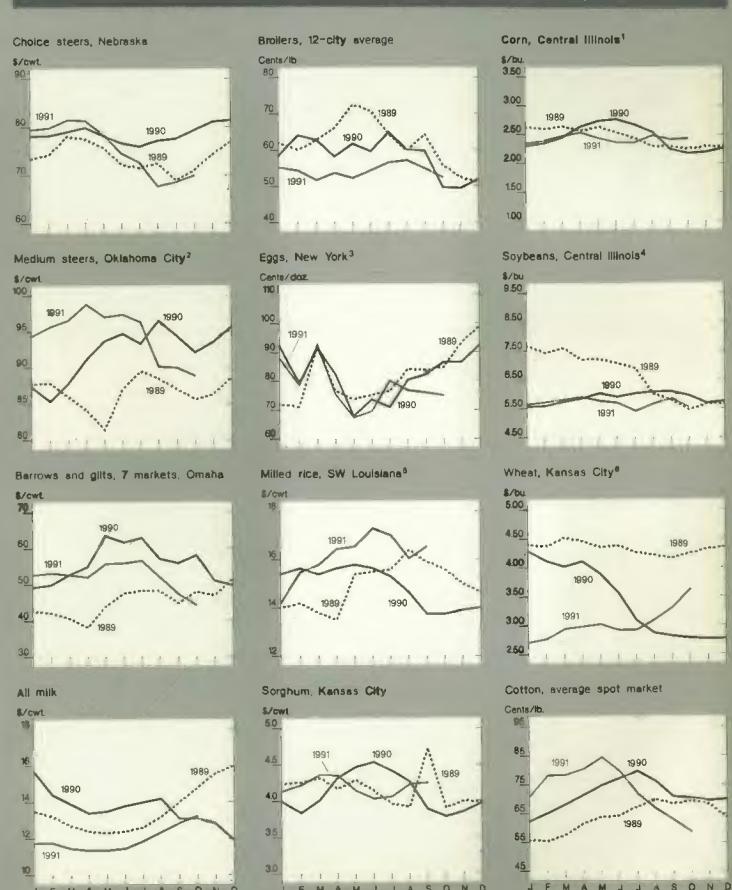
World trade in calendar 1992 is forecast at 12.9 million tons, up 4 percent from 1991. Larger imports are expected in Iran and Iraq as well as in Indonesia. Despite larger exports forecast for

Soviet Grain Imports Offset Production Shortfalls



Commodty Market Prices

⁵No. 1 HRW.



INo. 2 yellow. 2600-700 tos. medium no. 2. 3 Grade A large 4No. 1 yellow 5U.S. No. 2. long-grain. For info on PDF Compression and OCR go to The Paperless Office.org

Thailand, and prospects of relatively low competitor export prices, U.S. exports are projected at 2.3 million tons, up 5 percent from 1991. Market share is also expected to rise slightly.

U.S. rice production in 1991/92 is forecast up nearly 3 percent from a year earlier to 159 million cwt, due to projected increases in harvested acreage and yields. Output of long grain rice is forecast up 5 percent, while combined medium and short grain output is expected to fall 2 percent.

Virtually the entire California crop was harvested during October, under excellent weather conditions, while Texas and southern Louisiana producers were harvesting second crops (rations). Second-crop yields have been higher than normal. Record-high yields are forecast for California and Louisiana.

Domestic use of rice continues to grow, and is projected to Increase 3 percent in 1991/92. Food use for 1991/92 is forecast up 5 percent. Brewers' use, at about 18 percent of total domestic use, is also projected up slightly. This increase in domestic use is expected to offset a drop in marketing year exports, leading to a marginal increase in total rice disappearance.

Ending stocks, forecast at 26 million cwt, are up 5 percent from a year ago, largely due to the forecast output gain. However, rice stocks still remain tight relative to use. This would be the fourth consecutive year that the stocks-to-use ratio is below 17 percent.

The relatively tight U.S. stocks-to-use ratio and strong domestic demand are bolstering U.S. prices. U.S. rice prices are projected to range between \$6.75 and \$7.75 per cwt in 1991/92, compared with \$6.60-\$6.80 for 1990/91.

World Cotton Production at Record

World cotton production in 1991/92 is forecast at 91.6 million bales. 5 percent above last season and a record outturn. The larger prospective crop this season reflects a 3-percent increase in world cotton area and favorable harvest conditions among most Northern Hemisphere producers. Among the leading foreign cotton producing countries, outturn in 1991/92 is projected up 1.3 million bales in China, nearly 900,000 in India, and about 300,000 in Pakistan. However, Soviet production is expected to fall by 1 million bales.

Consumption is forecast at a record 88 million bales, up 2 million from 1990/91, while trade is projected slightly larger, up a half million to 23.9 million bales. Even with anticipated gains in consumption and trade, yearend world stocks are expected to rise nearly 13 percent from the low levels of the last two seasons because of higher production.

Reflecting expectations for a much larger world crop and increasing stocks, world cotton prices have declined steadily so far this season. As measured by the A-index on the Northern Europe market, world prices averaged 67.8 cents per pound in October, compared with 81.6 cents for the same month last year.

U.S. Cotton Mill Use Largest Since 1966/67

U.S. cotton production is forecast at 18.2 million bales in 1991/92, 17.5 percent above a year earlier and the largest crop since 1937. This estimate is up moderately from October's forecast due to ideal weather in the Delta and Southeast.

Harvested area is projected at nearly 13.5 million acres, the largest since 1981, primarily due to the low 5-percent ARP. Yield per harvested acre is estimated at 649 pounds, 19 pounds above last month's forecast and 15 pounds above last year's yield.

Beneficial weather in October resulted in rapid crop development in many areas. As of November 17, 46 percent of the Texas crop was harvested, 4 percentage points above the 5-year average. Overall, 71 percent of the crop was harvested, 3 percentage points above the average.

Domestic cotton mill use is expected to reach 9.1 million bales in 1991/92, the largest since 1966/67. This strong showing is primarily the result of high U.S. denim usage, larger exports of textiles made with U.S. cotton, and the replenishment of depleted textile inventories.

U.S. cotton exports are forecast at 7.2 million bales, down from last season because of increased foreign competition. At 30 percent, the U.S. market share is expected to remain slightly above average, though smaller than 1990/91.

U.S. cotton stocks are expected to be replenished by this season's large production. Ending stocks in 1991/92 are forecast to reach 4.4 million bales, sharply above last month's forecast, and nearly double the beginning stocks level.

With production exceeding use, prices have declined sharply. Mid-November spot market prices of 55 cents per pound were 15 cents below a year ago and the lowest in 2 1/2 years. [Joy Harwood (202) 219-0840 and Carolyn Whitton (202) 219-0824]

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Livestock, Dairy & Poultry Overview

The turkey industry enters the fourth quarter not only with record supplies, but also facing large supplies of competing meats. Consumers should see some attractive retail turkey specials for the holidays as retailers try to move the record supplies.

Indications are strong that retail prices for many pork products, especially hams, will also be priced attractively this holiday season. Retail prices for hams in October were 12 percent lower than a year ago.

Recent performance in the cattle feeding industry has been shaped by two factors. High feeder and stocker cattle prices have left little incentive for feedlots to place lightweight cattle, and changing feeding practices have allowed cattle feeders to market cattle at heavier weights without price discounts. [For the latest estimates on the livestock, dairy, and poultry markets, see tables 10-16.]

Turkey Stocks at Record, Prices Down

As the turkey industry enters the fourth quarter, attempts to reduce record stocks mean consumers should see attractive retail turkey specials for the yearend holidays.

If turkey producers are unable to reduce the large stocks in the fourth quarter, the outlook for favorable growth and returns in 1992 will dim. Lower fourth-quarter prices are expected to push returns below breakeven. Continuing lower turkey prices and steady feed costs expected in 1992 will also lower expectations for improved returns next year. Currently, the outlook is for 1992 to be another modest production-growth year—2 to 3 percent.

Turkey production in the third quarter was about 2 percent above a year earlier,

and is estimated to be little changed in the fourth quarter following generally weak prices and record stock levels. Production for the year overall is expected to rise 2-3 percent, an unusually small increase for the turkey industry.

Turkey stocks continued to rise in the third quarter from already record levels, to 655 million pounds on October 1, about 5 percent above last year. Wholesale turkey prices fell in early October, and Eastern region hens are estimated at 57-59 cents per pound for the fourth quarter, compared with 68.6 cents last year. This will be the lowest fourth-quarter average since 1981's 55 cents. For 1991 overall, Eastern region hen prices are expected to average around 60 cents, the lowest since 1987.

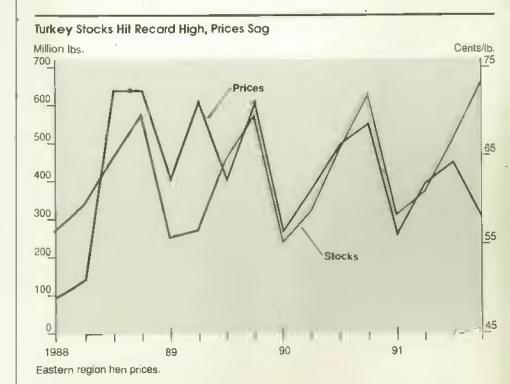
Despite Increases in the first half of 1991, per capita consumption was flat in the third quarter compared with a year earlier. Lower relative prices of competing meats have likely slowed growth in turkey consumption. Price declines may help stem the slowdown in consumption and the buildup of record stocks.

Broiler Exports A Record in 1991

Prospects have become brighter for U.S. broiler exports, at least in the near term. Although the growth in exports this year will not be as strong as in 1990, exports are expected to increase about 1 percent from a year earlier, reaching a new record at approximately 1.15 billion pounds.

Broiler producers are placing greater emphasis on export markets, especially as domestic broiler production cominues to expand and red meat supplies abound. Boosted by a recent sale to the USSR, fourth-quarter exports are likely to reach about the same level as last year, around 300 million pounds. Broiler exports through August were up 18 percent from a year earlier, excluding purchases made by the USSR. Japan and Hong Kong are 1991's largest buyers, accounting for about 22 and 19 percent of total exports through August.

Sales to Mexico, the Middle East, and to some smaller markets also continue stronger. Mexico's purchases through August increased about 56 percent from



a year ago, due to population growth and increased incomes. Entry of agricultural commodities into Mexico has become less restricted, and U.S. dark broiler meat parts remain competitively priced.

Sales to the Middle East are mainly whole birds under the Export Enhancement Program (EEP), although some shipments of broiler parts not under EEP are also included. EEP sales are expected to represent about 4-5 percent of broiler exports in 1991.

Sales to the Soviets through most of 1991 are below last year, reflecting their strong dependency on export credit guarantees. U.S. broiler sales to the USSR have been and will continue to be nearly all low-priced leg quarters. Export credit guarantees of \$15 million in early October, allocated for poultry, should lead to a fall shipment of about 40 million pounds of broiler meat to the USSR. In the absence of any further substantial purchases during the fourth quarter, U.S. exports to the USSR will likely reach about 165 million pounds in 1991, slightly over half the Soviets' purchases last year.

Broiler exports for next year will likely be another record, with much of the continuing demand from traditional markets such as Hong Kong, Japan, and Mexico. The USSR market will probably remain the most uncertain, and its import decisions could generate large fluctuations in U.S. exports.

Broiler supplies remain abundant in fourth-quarter 1991, but are increasing at a slower rate than last year. Chick placements in August through October indicate that fourth-quarter production will be up about 4 percent from a year ago, compared with the 8-percent growth last year.

Annual production is expected to increase over 6 percent from a year ago to about 19.8 billion pounds, slightly below the 7-percent growth last year. The slow-down in growth reflects producer adjustments to lower prices and net returns through most of 1991. Fourth-quarter net returns are expected to average 1-2 cents below last year.

Wholesale broiler prices have been helped by slower production growth and strong exports. October broiler prices moved nearly 3 cents a pound above a year ago for the first time in 8 months, averaging nearly 52 cents. However, broiler prices this fall are under new pressure from ample supplies of competing meats, particularly during the holidays, when pork and turkey are in the spotlight and both are priced lower than a year ago.

Fourth-quarter broiler prices will likely decline seasonally from 54 cents a pound during the third quarter to the high 40's, little changed from a year earlier. Retail prices for whole broilers this fall remained in the mid- to high 80's, 1-2 cents below a year ago.

Generally lower broiler prices and lower net returns this year will likely continue the slowdown in production growth for 1992. Production is expected to increase around 4 percent, about 2 percentage points below this year's advance. Increased total meat supplies and continued lower red meat prices will likely keep the pressure on broiler prices during 1992. For the year, wholesale broiler prices will likely average 46-52 cents a pound, and retail prices for whole broilers 87-89 cents, slightly lower than this year.

Profitability in 1992 will be hurt by lower broiler prices and feed costs that are about steady with 1991. Net returns in 1992 will likely decline 2-3 cents a pound from 1991. Average net returns during the first quarter will likely be off a few cents from first-quarter 1991, given a 4-5-percent decline in broiler prices.

Egg Output Up Slightly, Prices Lower

Second-half 1991 egg production will be slightly above 1990, reflecting a table-egg flock that has been larger than a year ago every month since June. The rate of expansion is slowing, however, as producers become more cautious due to lower, but still positive, net returns.

Table-egg production increased 1 percent during the third quarter, but lower net returns should keep fourth-quarter production only fractionally above year-earlier levels. Total egg production for the year will likely increase about 1 percent to 5.7 billion dozen, reflecting about a 4-percent growth in hatching-egg production.

Slightly increased egg supplies during the third quarter pushed egg prices below a year earlier. Holiday baking will boost the demand for eggs this fall and help stabilize egg prices during the fourth quarter, but prices are expected to average 11-12 cents below a year earlier.

Fourth-quarter retail prices for Grade A large eggs are expected in the high 90's per dozen, compared with \$1.01 last year. Per capita egg consumption for 1991 is estimated at about 232 eggs, approximately 2-3 less than last year.

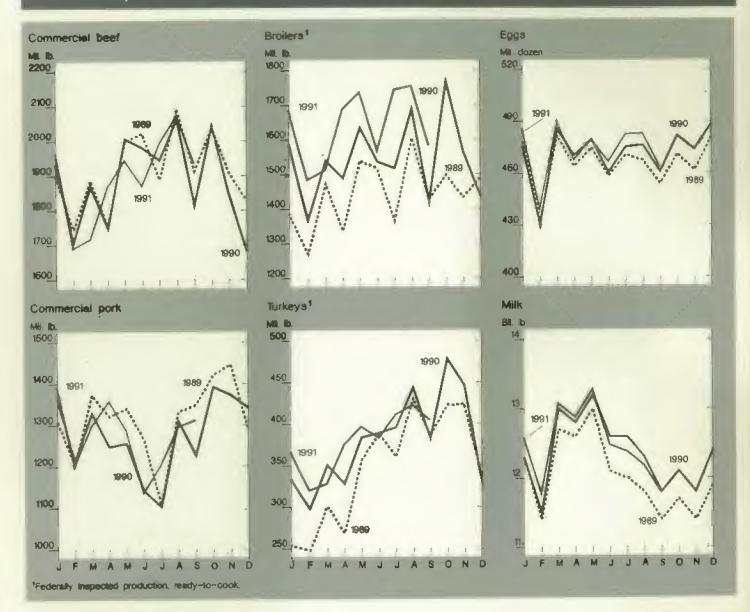
Table-egg production for 1992 is expected to be about unchanged to slightly above 1991, as producers adjust to lower prices. Average net returns to egg producers are expected to be 2-3 cents below the estimated 11-12 cents a dozen for 1991. Retail egg prices are expected in the low 90's, a few cents below this year.

Egg exports in 1992 are expected to be unchanged from this year, with EEP sales continuing to play an important role. Also, expected lower U.S. prices will help maintain the competitive position of the U.S. in foreign markets, particularly Japan and Canada.

Cattle Weights Heavier, Fed Cattle Prices High

Since July, performance in the cattle feeding industry has been shaped by two major factors. Plentiful forage and relatively small cattle numbers have resulted in high feeder and stocker cattle prices, leaving little incentive for feedlots to place lightweight cattle. On the other hand, present feeding practices and genetics have allowed cattle feeders to market fed cattle at heavier weights without price discounts.

Livestock & Product Output



Favorable forage available from pastures and ranges, hay, and other sources allowed more cattle to be kept on forage longer than in recent years. Feedlot operators are unable to bid stocker and feeder cattle away from forage-based rations, which usually involve lower costs of adding weight to cattle.

This was evident in the October 1 Cattle on Feed report for 13 states, showing the lowest number of cattle placed on feed during the third quarter since 1981, at 5.4 million head, and 15 percent below the same period last year. The greatest annual reduction was in the under-500-pound steers and heifers on feed; these were 40 and 50 percent below placement

levels a year ago, respectively. Most of the cattle placed on feed during the summer quarter were heavier weight feeders.

Based on the seven-state Cattle on Feed report of November 1, the slower placement pace continued in October, with large feeding losses and good forage conditions in most areas. Placements during October were 10 percent below a year ago. Lower placements, combined with a 1-percent rise in marketings, resulted in a November 1 cattle-on-feed inventory down 9 percent from a year ago.

Feedlot operators have an incentive to add extra pounds to fed cattle before marketing them. The cost of weight gain

in feedlots is in the low \$50's per cwt, and fed cattle prices are in the upper \$60's to low \$70's per cwt. Federally inspected steer carcass weights averaged 781 pounds in September, 20 pounds heavier than a year earlier and 58 pounds above the 1980-89 average.

But even with record weights, packers are not significantly discounting prices to discourage heavyweight cattle, particularly since the proportion of cattle being graded as Choice is well below the normal 70-80 percent. This suggests that present feeding practices are not resulting in overfinished fed cattle.

Unless the economic signals change, feedlot operators are not expected to increase placements on feed sharply nor to market fed cattle at lighter weights. A decline in feeder and stocker cattle prices, higher fed cattle price expectations, or lower cost of gain in feedlots could change feedlot operator behavior—boosting placements or marketing lower weight cattle.

Retail Choice beef prices averaged \$2.80 per pound during September, declining over 5 cents from a month earlier. The farm-retail price spread for September was \$1.33 per pound, off 7 cents from August, as retail prices declined and live steer prices firmed.

Retail Choice beef prices are expected to stabilize in the \$2.80-to-\$2.85 range this fall, with further advances expected for steer prices. Ample supplies of substitute meats will blunt the price rise potential for Choice beef.

Ample Pork Supplies Expected To Continue

Likely hog slaughter increases in December should put fourth-quarter production 7 percent higher than a year ago. Monthly hog slaughter normally follows a seasonal trend, increasing from July through October, tapering off in November.

Price declines since August have been mainly responsible for the narrowing of hog producers' returns. After stabilizing in September, hog prices in October resumed the slide which started with August's sharp price break. Since early August, weekly hog prices have fallen over \$17 per cwt. Hog prices at the start of November were around \$38 per cwt, a full 30 percent lower than a year ago. Throughout November, hog prices have remained in the high \$30's per cwt, but occasionally dropped to the mid-\$30's. Some price strength is expected in December, but not to the same degree as past years.

Hog price declines for producers are translating into lower wholesale and retail prices. Producer prices dropped 30 percent from a year ago, and wholesale and retail composite values have dropped 16 and 7 percent. In the coming months, margins should narrow, with wholesale and retail prices more fully matching producer price declines.

As margins narrow, many pork products, especially hams, will be priced attractively for consumers through the holiday season. Retail prices for hams in October, for example, were 12 percent lower than a year ago. However, more moderate price declines in other pork products helped offset the large price cut for hams.

Little Expansion
In 1992 Milk Production

Milk production in 1992 is projected to remain close to this year's 149 billion pounds. Returns will not be strong enough to move output significantly, and production probably will begin the year without much upward momentum.

Dairy farmers will enter 1992 with financial conditions similar to a year earlier. Debt-asset ratios probably will be low, but income prospects will not be particularly bright because only slight increases are expected in milk prices. Consequently, expansion plans are likely to be conservative, even though a fairly large number of farms could take on some new debt, given their debt-asset position.

The relatively low returns expected in the first half of 1992 probably will result in dairy farmers exiting the industry. However, the exit rate is not expected to be as large as during early 1991, when low prices following 2 years of high prices precipitated substantial exit. In addition, slaughter cow prices will not be as high as a year earlier, making it less attractive for dairy farmers to sell their less productive stock and exit the industry.

Growth in milk per cow is expected to be below trend during most of 1992. Milk-feed price ratios probably will not sustain normal increases in concentrate feeding, and the quality of 1991's forage was uncertain in many areas.

For further information, contact: Richard Stillman, coordinator; John Ginzel, cattle; Felix Spinelli, hogs; Lee Christensen, Agnes Perez, and Larry Witucki, poultry; Jim Miller and Sara Short, dairy. All are at (202) 219-1285. AC

The staff of

Agricultural Outlook
extends best wishes
to our readers for the
HOLIDAY SEASON
and the NEW YEAR.



Specialty Crops Overview

Severe insect damage to winter fresh broccoli, cauliflower, and lettuce in California and Arizona will cut supplies of those crops and boost consumer prices during December and January.

U.S. fall potato production is forecast up 5 percent from a year ago. A large fall crop will dampen grower prices for the remainder of the 1991/92 marketing year, and consumer prices are also likely to decline through the first half of 1992.

Despite higher U.S. apple production in 1991, consumer prices should remain strong during the first 8 months of 1992. Strong export demand and a smaller crop in the West, the major supplier of apples from storage, will push retail prices above year-earlier levels.

Tight supplies of flue-cured and burley tobacco are boosting grower prices for 1991 crop tobacco. (For the latest specialty crop conditions, see tables 20-22.)

Whitefly Wreaks Havoc On Winter Vegetables

A severe whitefly infestation in the California and Arizona desert agricultural areas, combined with unusually hot weather during September and October, will reduce winter production of brocoli, cauliflower, and lettuce. Yields are expected 25 to 50 percent below normal, and insect damage could also adversely affect quality. Industry sources report the fall melon crop 85 to 95 percent lower than anticipated.

The drop in production began to affect prices in late November, when the desert areas began to supply substantial shares of cool-season crops. Higher prices are expected at least through January,

The last major whitefly infestation occurred in 1987/88, causing retail lettuce prices to average \$1.25 a pound in December and January—more than double "normal" levels. Industry sources are anticipating a repeat of the 1987 lettuce experience in 1991/92.

Elsewhere, adverse weather resulted in a decline of 22 percent this year in fall planted acreage of tomatoes in Florida. Heavy rains washed out or delayed planting of some of the state's fall tomato acreage.

Potato Prices Lower With Large Fall Crop

A large 1991 fall potato crop has dampened growers' price expectations for the remainder of the 1991/92 marketing year, and consumers can expect lower retail prices for fresh potatoes during the first half of 1992. As of mid-October, shipping-point prices for fresh potatoes in most areas were below levels of the same time last season.

Because the fall crop generally makes up about 88 percent of annual supplies, its size is a major determinant of season-average grower prices, which will likely range from \$4-\$5 a cwt, compared with the \$6.08 average for the \$1990 crop.

USDA forecasts fall potato production up 5 percent from 1990, the result of 1 percent more harvested area and 4-percent-higher yields. Estimated fall production is expected to reach a record 371 million cwt. North Dakota, which experienced drought-reduced output the last 3 years, produced 14 million cwt more potatoes than in 1990, while Idaho and Washington harvested 3 and 5 million cwt more than a year earlier. Central states also harvested more fall potatoes than in 1990. However, drought cut output in eastern states by 13 percent.

Estimated U.S. exports of frozen potatoes will decline in calendar 1991, primarily due to lower sales to Canada. As Canada expanded its fry production capacity, U.S. sales to Canada fell to a fraction of last year's volume, with few prospects for recovery in the near future.

However, frozen potato exports to Pacific Rim countries continued to increase. Japan is the major importer of frozen fries, while South Korea replaced Canada in 1991 as the number-two destination for U.S. frozen potato exports.

The U.S. also ships significant quantities of frozen potatoes to Hong Kong, Singapore, and Taiwan.

Export volume of frozen french fries for the first 8 months of 1991 dropped 21 percent below the same period a year earlier. Frozen french fry exports in August were less than half of last year's level for that month.

Apple Prices Strong Despite Larger Crop

Retail apple prices are expected to remain relatively strong throughout the marketing season. Lower apple production in Western states will boost prices more than larger crops in Eastern and Central states will depress them. Although U.S. output is forecast up 4 percent from 1990, Washington's production, which usually makes up half of U.S. output, is expected to fall 4 percent, Oregon's 36 percent, and Idaho's 21 percent. California expects 3-percenthigher production.

The smaller western apple crop should support prices during the last half of the 1991/92 marketing season, when most marketings are western apples supplied from storage. Grower prices averaged 24.9 cents a pound in October compared with 19.3 cents a year ago. Fresh apple prices during October generally were higher than a year earlier in all the major fresh shipment areas.

Apple exports for 1990/91 (July to June) jumped 8 percent from the year before. Increased funding from USDA's Market Promotion Program may have contributed to strong export sales to the EC and Asian markets. Exports of apples to Canada, the number one destination of U.S. apple exports, rose 12 percent in 1990/91.

U.S. pear production is expected to decline 9 percent from 1990 levels. The smaller crop and strong processing

demand have resulted in higher grower prices and will likely sustain prices throughout the marketing season. Grower prices in October averaged 23 percent higher than a year earlier.

Export demand for fresh pears has been strong in 1990/91 (July to June), jumping 18 percent to 101,896 metric tons. Canada and Mexico together account for over half of U.S. fresh pear exports, while the EC and Sweden are also major importers of U.S. fresh pears.

A strong export market also seems assured for the 1991/92 season. Small 1991 European crops are expected to boost imports of apples and pears from the U.S. Continuing liberalization of trade policies in Pacific Rim countries are also expected to expand U.S. sales of apples and pears. Strong export demand will tend to keep domestic retail prices high.

Tobacco Grower Prices Rise

With all of the 1991 flue-cured crop sold, growers' prices exceeded 1990 prices by about 5 cents a pound. Higher price supports and relatively tight supplies accounted for the increased grower prices. Flue-cured production dropped 8 percent from 1990, and carryover stocks stand 7 percent below a year earlier. In addition, excessive rain reduced quality in some areas, and given tight supplies, the stabilization cooperative took more tobacco under loan than some growers anticipated.

Although burley auction sales did not begin until November 25, prices are expected to average higher than last season's \$1.75 a pound. Tight burley tobacco supplies are boosting burley prices. Burley production rose 10 percent from 1990, but carryover stocks are 10 percent smaller than a year earlier.

The national marketing quota for the 1992 flue-cured crop will be announced by December 15, 1991, and quotas for burley will be announced by February 1, 1992. Each quota is the sum of: (1) domestic cigarette manufacturers' stated purchase intentions during the 1992/93

marketing year; (2) average exports for the 3 most recent marketing years; and (3) an adjustment to maintain loan stocks at 15 percent of the basic quota, or at least 100 million pounds for flue-cured (50 million for burley).

Individual farm quotas and allotments also reflect undermarketings (unused quota) and overmarketings of the current crop. The size of 1992 quotas hinges largely on cigarette manufacturers' expectations about future domestic and foreign demand for U.S.-produced cigarettes.

Price supports are expected higher for 1992 flue-cured and burley tobacco crops because of the higher prices and costs for the 1991 crops. Flue-cured and burley price supports are based on a combination of a 5-year moving average of market prices, and changes in a cost-of-production index. For other tobacco types, support is based on changes in the parity index. [Glenn Zepp (202) 219-0883]

For further information, contact: Boyd Buxton, fruit; Gary Lucier, vegetables; Peter Buzzanell, sweeteners; Verner Grise, tobacco; Doyle Johnson, tree nuts and greenhouse/nursery; David Harvey, aquaculture; Lewrene Glaser, industrial crops. All are at (202) 219-0883.

Upcoming Reports from USDA's Economic Research Service

The following are December release dates for summaries of the ERS reports listed. Summaries are issued at 3 p.m. Eastern time.

December

- 3 Exports
- 12 Vegetables & Specialties Yearbook
- 13 Sugar & Sweetener
- 16 Agricultural Income & Finance
- 17 Tobacco Yearbook
- 19 Agricultural Outlook

Commodity Spotlight



Anomalies in the U.S. Vegetable Oil Market

The U.S. produces nearly 40 percent and consumes on average 35 percent of the world's soybean oil. Yet despite the ability to produce sufficient oil for domestic consumption, the U.S. became a net importer of vegetable oils in 1990, and actually began importing small amounts of soybean oil in the mid-1980's.

Developments in recent years in the U.S. vegetable oil market—particularly in soybean oil—can be explained partly by the changing objectives of U.S. export programs, as well as developments in foreign markets. The U.S. government has provided assistance for exports of vegetable oils, mainly soybean oil, since the early 1950's.

A History of Veg-Oil Export Assistance

At varying times, U.S. export programs have reflected humanitarian, diplomatic, and financial goals, with a key objective being the development of foreign

Commodity Spotlight

markets for U.S. agricultural products. For example, in 1954 it was the "Food for Peace" program, now known as P.L.480, that ushered in an era of U.S. government support for exports.

Prior to 1955, soybean oil exports were small—soybeans did not take hold as a major U.S. crop until well after World War II. The P.L.480 program helped boost U.S. soybean oil exports from just 50 million pounds in 1954 to over 550 million pounds a year later. By 1965, soybean oil exports under P.L.480 had risen to 1,35 billion pounds.

During the 1950's and 1960's, large stocks of most agricultural commodities accumulated in government storage. For soybeans, however, strong growth in domestic and foreign demand during those decades kept soybean stocks low and stimulated production. Exports of soybeans and soymeal went mostly to Western Europe, with its rapidly expanding postwar economies. Sales were on a cash basis, and government involvement in those sales was minimal.

But the vegetable oil market did not benefit from the same strong market conditions as soybeans and soybean meal. While global demand for vegetable oils did rise during this time, supplies often outstripped demand, generating surpluses.

U.S. concessionary programs boosted sales to countries in the developing world that would not otherwise have the means to purchase oil. Under concessionary programs, USDA provided direct credits at close to commercial rates for sales of vegetable oil and other agricultural commodities from 1956 through 1980. In these years, USDA's Commodity Credit Corporation (CCC) assisted exports of about 2.4 billion pounds of vegetable oil.

Export Assistance Recedes in the Seventies...

The 1970's was a decade of growth in U.S. agricultural exports. While P.L.480 and credit programs still played a role in export sales to developing countries, the decade was marked by less government involvement in agricultural exports in

general, and vegetable oil in particular. By 1979, a year when exports of U.S. vegetable oils reached a record 3.75 billion pounds, government assistance of all kinds covered only about 25 percent of the total.

A number of factors contributed to the growth of U.S. agricultural exports in the 1970's. One of the most prominent was U.S. abandonment of the fixed exchange rate, which enabled U.S. farmers to become price-competitive in world markets. Rising incomes in many countries also boosted demand for food and helped stimulate U.S. commercial agricultural exports.

By the early 1980's, increasing export demand for vegetable oil began to stimulate oilseed production in other parts of the world. Many countries adopted policies that encouraged the shift of land and other resources into vegetable oil production. Output expanded in South America, the European Community (EC), China, and India. Malaysia and Indonesia also became major vegetable oil producers in the 1980's.

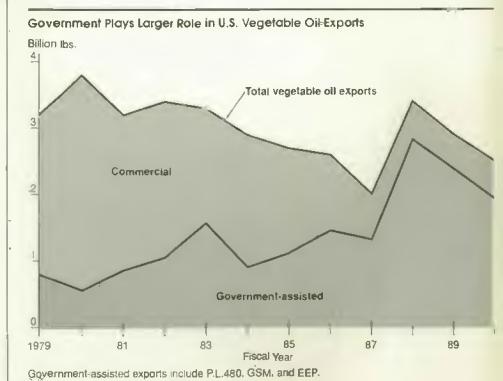
EC vegetable oil production in particular expanded substantially. Between 1980

and 1990, EC oilseed production expanded from 3.2 million metric tons to over 13 million tons. Much of the growth was the result of government policies that encouraged production—some intended to offset burgeoning EC grain production. EC support prices for oilseeds were substantially above world prices throughout the 1980's, particularly after 1984 when world prices declined sharply.

...Re-Emerging in the Late Eighties

In an environment of rising foreign production, in some cases subsidized, U.S. export programs again began to play a prominent role in U.S. soybean oil exports. As U.S. exports declined in the 1980's, the share of government-assisted sales climbed. In 1985, the Export Enhancement Program (EEP) was authorized to improve the competitiveness of U.S. agricultural exports and to counter subsidized foreign exports.

With the EEP in place, governmentassisted vegetable oil exports rose to 65 percent of total vegetable oil exports in 1986/87. Still, U.S. vegetable oil-



Commodity Spotlight

exports—although benefiting from more government assistance—continued to sag, while world vegetable oil trade expanded.

Then, from 1987 to 1989, U.S. vegetable oil exports again began to climb, with the proportion receiving government aid reaching nearly 66 percent by 1987/88. In that year, vegetable oil exports were the highest since 1981/82. For 1991/92, soybean oil exports are forecast at 1 billion pounds, but government assistance will be necessary to reach forecast exports.

U.S. Consumers Buy Canola

While U.S. vegetable oil exports increased with the help of EEP and other government assistance, the U.S. managed to become a net importer of vegetable oil in 1990. The U.S. traditionally has imported significant quantities of some foreign vegetable oils, such as palm kernel, coconut, and olive oil. The imports are generally oils that the U.S. either does not produce or produces only in small quantities. But recently, the U.S. has imported small quantities of soybean oil, and growth in Canadian rapeseed oil imports (canola)—a direct substitute for soybean oil—has increased substantially.

These patterns of imports and consumption are partly related to the characteristics of the U.S. soybean and vegetable oil market, and partly to the effects of export assistance. Although the U.S. is a large soybean producer, its total vegetable oil exports, including soybean oil, represent a small share of world trade. Between 1987 and 1990, U.S. vegetable oil exports made up only about 6 percent of world trade in vegetable oils.

To the extent that government assistance boosts the volume of U.S. vegetable oil exports, this may have a greater impact in raising domestic oil prices relative to world prices. However, even with government assistance, the volume of U.S. vegetable oil exports is probably not large enough to be a significant influence on the world price of vegetable oils.

The U.S. soybean oil base price, known as the Decatur price, was lower than the European Rotterdam price before 1985. After 1985, however, Decatur soybean oil prices have been consistently higher than Rotterdam prices, with the exception of the most recent few months.

As a result, domestic consumers have begun to substitute low-priced imported oils for relatively higher priced domestic soybean oil. The U.S. does have a 22.5-percent ad valorem tariff on foreign soybean oil imports, and somewhat lower tariffs on other vegetable oils. But canola—Canada's edible rapeseed oil—enjoys one of the lowest tariffs of any vegetable oil.

Prior to 1985, canola could not be consumed as a food item in the U.S. The Food and Drug Administration finally granted GRASS status (Generally Recognized as Safe Substance) to canola in January 1985. The recent U.S.-Canada Free Trade Agreement lowered canola's tariff to 3 percent, and in January 1992 the tariff will be removed entirely.

U.S. imports of canola from Canada have increased sharply over the last few years. While canola's low saturated fat content likely encouraged growth in domestic consumption, price competitiveness with U.S. soybean oil has probably also helped boost canola consumption's share of the U.S. market.

Who Benefits from U.S. Export Assistance?

Several groups are affected by export assistance for vegetable oil—U.S. farmers, processors (in the case of soybeans), U.S. consumers, foreign consumers, and foreign vegetable oil exporters. Although an exact measure of benefits to various groups depends on a thorough economic analysis, some of the factors that determine benefits for affected groups are raised here.

If export assistance for vegetable oil stimulates or maintains oilseed production, or results in higher farm prices for oilseeds, U.S. farmers would benefit from the stronger demand or prices. In the case of soybeans, processors may benefit if export assistance for vegetable oils means more soybeans are crushed.

The benefits to U.S. consumers depend on the availability of soybean oil or other vegetable oils, as well as relative prices when export assistance effectively shifts the sale of oil to export markets. If domestic production is diverted to export markets, and domestic soybean oil prices rise, U.S. consumers can escape higher prices if cheaper substitutes are available for consumption. [Roger Hoskin (202) 219-0840 and Karen Ackerman (202) 219-0821]



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World Agriculture & Trade



The EEP: An Update

he U.S. continues to counter price subsidies in global markets with the Export Enhancement Program (EEP), a targeted export subsidy. In fiscal 1991, USDA awarded \$916.6 million in generic commodity certificates to exporters—for sales of barley malt, barley, frozen poultry, rice, table eggs, vegetable oils, wheat, and wheat flour. Under the EEP, U.S. exporters arrange sales with importers in targeted markets and then bid for bonuses awarded by USDA.

Relatively large supplies and increased competition caused world grain prices to fall in much of fiscal 1991. In response, the total EEP bonuses awarded rose to almost three times the fiscal 1989 and 1990 levels. However, the fiscal 1991 EEP bonus value was still below the more than \$1 billion awarded to exporters in 1988.

Most EEP Bonuses Are for Wheat

Wheat is the chief EEP commodity, accounting for 84 percent of total bonuses in fiscal 1991, EEP shipments represent

a substantial share of U.S. wheat exports—an estimated 60 percent in fiscal 1991.

Major changes in world wheat supply and demand in 1990/91 contributed to higher EEP bonuses in fiscal 1991. U.S. wheat production in 1990/91 was up sharply from the drought-reduced crops in 1988/89 and 1989/90, to 74.5 million tons. Other wheat exporters' and major importers' production and stocks also climbed in 1990/91 to record and near-record levels.

As U.S. wheat supplies grew, EEP wheat sales increased. After falling to 12.2 million tons in the 1989/90 (June/May) marketing year from a high of 25.5 million in 1987/88, EEP wheat sales rose slightly to 14.3 million tons in 1990/91 in spite of budget constraints. Marketing year 1991/92 EEP wheat sales are off to a strong start. June-September 1991 EEP wheat sales were 6.5 million tons, almost twice last year's sales for the same period.

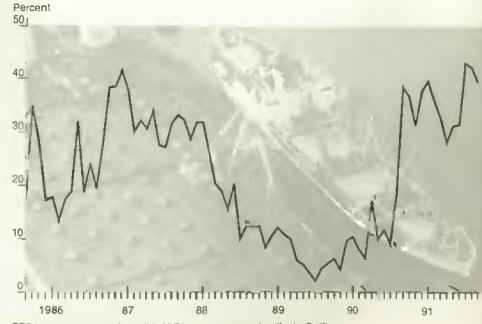
EEP bonuses, aimed at meeting subsidized competition in targeted markets, represent a growing proportion of quoted U.S. wheat export prices (f.o.b. Gulfport No. 2 hard red winter). Following droughts in 1988 and 1989, soaring world wheat prices led to reduced EEP bonus levels. As global price competition intensified, EEP bonuses rose rapidly in the fall of 1990, and continued to increase through 1991. The average monthly EEP bonus topped \$50 a ton in July 1991. Since September 1990, EEP bonuses have accounted for 25 to 45 percent of U.S. wheat export price.

EEP Wheat Sales to Over 40 Countries

While the EEP has assisted wheat sales to more than 40 countries since the program began, Algeria, China, Egypt, Morocco, and the Soviet Union continue to be major purchasers under the program. EEP wheat sales to the Philippines have also increased in recent years. These six purchasers together accounted for over 80 percent of total EEP wheat sales in 1990/91.

The Soviet Union and China alone represented close to 50 percent of all EEP wheat sales in the 1990/91 marketing year. EEP wheat sales to China of 4.6 million tons in 1990/91 increased by 40 percent from the previous year. But EEP sales to the Soviet Union in 1990/91 of

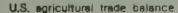
EEP Wheat Bonuses Rise to Meet World Competition

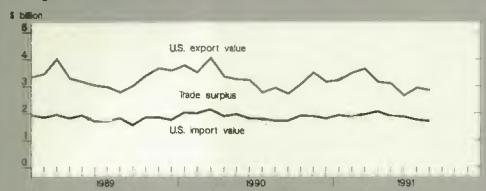


EEP bonus as share of monthly U.S. wheat export price (f.o.b. Gulf). Source: ERS.

U.S. Trade Indicators

World Agriculture & Trade

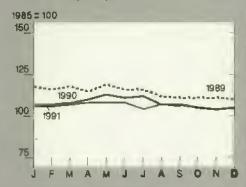




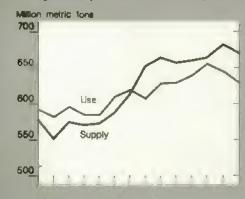
Export volume



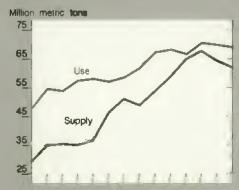
Index of export prices



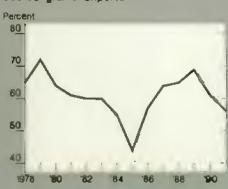
Foreign supply & use of coarse grains



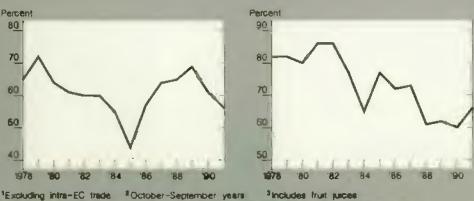
Foreign supply & use of soybeans



U.S. share of world coarse grains exports 1,2

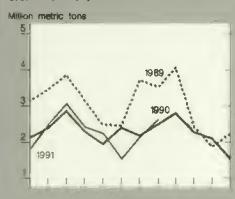


U.S. share of world soybean exports12

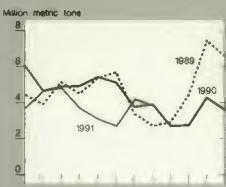


³Includes fruit juices

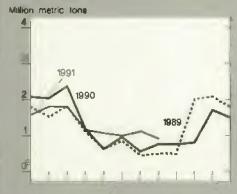
U.S. wheat exports



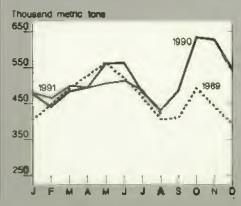
U.S. corn exports



U.S. soybean exports



U.S. fruit & vegetable exports3



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World Agriculture & Trade

2.1 million tons were down sharply from 3.9 million tons in the previous year.

June-September 1991 EEP wheat sales to both the Soviet Union and China are up from last year's sales during those months. EEP sales to China stood at almost 2 million tons, and sales to the Soviet Union at over 1 million tons. The Soviet Union purchased an additional 1.8 million tons of wheat under EEP in October 1991.

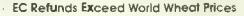
Sales of wheat to the North African countries of Algeria, Egypt, Morocco, and Tunisia under EEP in 1990/91 were higher than in 1989/90. But June-September 1991 sales to Algeria and Morocco were down from the same period last year, as record wheat crops in North Africa lowered import demand. Egypt's EEP wheat purchases are higher this year.

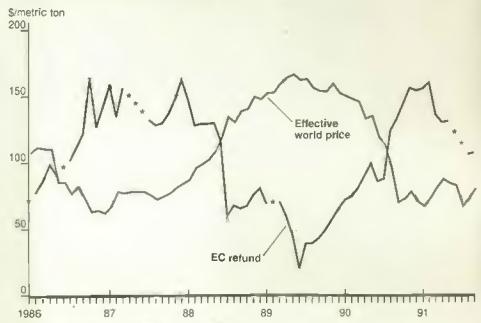
The greatest increases in EEP wheat sales can be found in the Philippines. EEP wheat sales to the Philippines increased from about 850,000 metric tons in the 1987/88 and 1988/89 marketing years, to 1.3 million tons in 1990/91. EEP sales to the Philippines were already 765,000 tons during June-September 1991.

Bonuses Help Offset EC Export Subsidies

Price competition from wheat exporting countries increased in 1990 and 1991 as global supplies expanded. The European Community (EC), one of the five top wheat producers, has considerable discretion in using different types of export subsidies in any one year.

The EC exports wheat through four main channels: open market tenders, the fixed export refund system, export tenders from intervention stocks, and food aid tenders. Two of the channels—open market tenders and fixed export refunds—involve commercial sales of privately owned stocks. The EC also sells its intervention stocks for export at world prices and provides food aid from intervention stocks.





Effective world price is monthly U.S. Gulf price minus EEP bonus. 'No open market refund was announced this month.

Source: ERS.

The open market tender system allows exporters to bid weekly for export sales. The EC Cereals Management Committee reviews exporter bids and announces a maximum acceptable refund. Export licenses are granted to exporters whose bids the Committee has accepted.

In calendar 1990, maximum open market refund sales accounted for an estimated 48 percent of EC wheat exports. The first open market tender for the 1990/91 season was announced on May 31, 1990. Although the share of total exports accounted for by open market refund sales is not available for a marketing year, maximum open market refunds were announced for export sales of 6.33 million tons of wheat during the 1990/91 season.

EC open market refunds and EEP bonuses generally move together. However, higher EC domestic support prices cause EC refunds to be much larger than EEP bonuses. Monthly average EC open market refunds for common wheat (non-durum, generally soft, European wheat) rose sharply in fall 1990, settled above \$150 per ton in early 1991, and dropped to about \$110 in recent months. At more

than \$150 a ton in early 1991, EC refunds were more than double effective world wheat prices, and have been above world prices since mid-1990.

The EC also announces fixed (or standing) refunds for export sales to traditional EC customers such as Norway. Sweden, and Switzerland which remain valid for specified periods of time. Standing or pre-fixed refunds also have been announced for export sales to other countries such as the Soviet Union. Although aggregate information on export sales assisted by such fixed refunds is not available, it is believed that the incidence of such sales increased in recent years in response to the EEP.

Export sales of wheat from EC intervention stocks are estimated at 1.9 million in 1990/91, slightly higher than in 1989/90 but down from 1988/89 and 1987/88 levels of more than 3 million tons. However, sales from intervention stocks picked up in the spring of 1991 and have remained strong through the fall.

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The EC budgeted \$6.4 billion for total grains support in 1991, but did not specify how much should be allocated to export refunds. Judging from export refunds in previous years and the 1991 market situation, EC refunds for wheat alone might approach \$2 billion in 1991.

Price Competition Still Strong in 1991/92

The world wheat situation in the 1991/92 marketing year is characterized by higher production in the EC, Canada, and smaller wheat exporting countries, but significantly lower production in the U.S. and Australia. Wheat stocks are particularly high in the EC—beginning stocks are currently estimated at a record 14.8 million tons. But U.S. wheat supplies are sharply lower in 1991/92, with production down 28 percent from 1990/91. Ending stocks are projected at 14 million metric tons, the lowest since 1974.

World wheat prices began to rise in June in response to lower U.S. stocks, concerns about the U.S. and Australian wheat crops, and expectations of strong imports in the coming year. Despite its reduced supplies, the U.S. has continued to compete with the EC for export sales this year. World wheat prices are likely to rise in coming months as world supplies tighten. However, barring unfavorable weather, large EC and Canadian wheat inventories will likely restrain price rises.

EEP Sales of Other Commodities Also Higher

Fiscal 1991 EEP sales of flour, table eggs, and vegetable oils were also sharply higher than fiscal 1990's. Chief destinations for EEP flour were the West and Central African countries and Yemen. U.S. exporters used the EEP to sell close to 15 million dozen eggs in fiscal 1991 to Hong Kong, the major EEP purchaser of table eggs. EEP vegetable oil sales spread from Turkey and the North African countries—Algeria, Morocco, and Tunisia—to Mexico and the Dominican Republic.

For fiscal 1992, Congress has not limited EEP spending. EEP bonuses totaled close to \$290 million for the first 8 weeks of fiscal 1992. Traditionally, EEP bonuses have been generic commodity certificates redeemable for Commodity Credit Corporation (CCC) stocks. However, lower CCC inventories encouraged USDA to announce that EEP bonuses would be awarded in cash as of November 7, 1991. As of October 1, 1991, CCC inventories of wheat equaled 4.4 million metric tons compared with 2.8 million last year, while CCC com and sorghum inventories totaled 11.5 million tons, down from 17.6 million in 1990. [Karen Ackerman (202) 219-0821] AO

Continuing in March

AO's five-part series

on

U.S.-Mexico relations and the implications for the future

Part II: Agricultural trade

Farm Finance



Farmer Mac's Troubled Start

The Federal Agricultural Mortgage Corporation, known as Farmer Mac, was chartered by Congress in 1987 with the dual mission of expanding the availability of long-term, fixed-rate real estate credit to farmers, and easing financial stress among farmers and lenders. Farmer Mac has the authority to operate a secondary loan market to package agricultural real estate loans for sale to investors.

In a secondary mortgage market, lenders sell existing loans to investors. These loans were created in a primary market, by lenders making new loans to borrowers. Loans sold through the Farmer Mac market would be bundled together (pooled) by a financial intermediary (pooler), and securities backed by the pool would be sold to investors based on the type of loans in the pool. Investors would be guaranteed repayment on these securities by Farmer Mac, which is backed by the U.S. Treasury.

But nearly 4 years after its authorization, expectations for the secondary loan market are withering, as Farmer Mac has yet to guarantee a loan pool.

Farm Finance

Weak Loan Demand A Problem

Farmer Mac's troubled start is the result of a complex mix of economic and structural factors. One cause is a weak demand for farm real estate financing in recent years, but another involves the fixed-rate financing provided by Farmer Mac.

Farmers' demand for land was strong during the 1970's and early 1980's. Rapidly appreciating farmland values coupled with low real interest rates encouraged farmers to take on debt to expand their farms. Then, during the farm financial crisis of the 1980's, declining land values and mounting debt combined to dull farmers' appetite for farmland credit as well as lenders' willingness to provide it.

Farmers are now more cautious about assuming new debt to purchase land, and continue to shed debt accumulated in past years. With improved farm incomes, less credit is needed to finance purchases. When farmers have made recent purchases, they have generally done so with cash. In the last 3 years, debt was incurred on only two-thirds of farmland transfers, down from 90 percent 10 years ago.

These developments suggest that the need for a secondary market has receded. With reduced credit demand, lenders have ample funds for extending credit to farmers, lowering their incentive to participate in the Farmer Mac secondary market.

Not only has demand for new credit been weak, but so has demand for the fixed-rate financing that Farmer Mac offers. Lately, variable-rate loans are preferred because they offer lower cost financing. And unlike a decade ago, most farm borrowers are now accustomed to variable-rate loans.

When loans are made with fixed rates, lenders run the risk of interest rates rising above rates at which outstanding loans

The Language of Secondary Markets

Secondary Market-The investment market is usually defined in terms of primary and secondary markets. A primary market is where the original financial exchange is made. Examples include a company issuing stock for sale, or a lender making a loan directly to a borrower. A secondary market occurs when an existing loan is sold by the original lender, or when stock is resold. The New York Stock Exchange is one of the best developed secondary markets-every day, thousands of shares of existing stock are bought and sold by investors. Stocks, corporate bonds, Treasury securities, and home mortgages all have secondary markets.

Originator—An originator is a lender, such as a commercial bank, life insurance company, Farm Credit System (FCS) affiliate, or other financial institution. Originators may choose to sell eligible loans—in this case, farm mortgage loans—to poolers and earn origination and servicing fees.

Pooler—A pooler is an investment banker, or other security underwriter,

who assembles mortgages into a portfolio, or pool, and issues securities backed by those mortgage assets.

Underwriting standards—Underwriting standards are criteria, or guidelines, used to limit the type and amount of risk permitted in a financial portfolio. The rates charged should reflect the risk identified by the underwriting standards. For example, in an insurance market, automobile insurance premiums are lower if the insurance firm underwrites policies only for drivers with accident-free records. Likewise, borrowers with low risk of payment default would receive lower interest rates for loans.

Cost-of-funds index—A reported interest rate used by lenders on which to base interest rates offered on new loans. Examples include 1-year U.S. Treasury notes and the commercial bank prime rate which are commonly used to base interest rate adjustments on variable-rate loans. Farmer Mac has proposed creating its own cost-offunds index by periodically issuing securities.

are being repaid. A secondary market allows lenders to pass on such interest-rate risk to investors while offering fixed-rate loans to farm borrowers. But when interest rates are falling and fixed rates are high relative to short-term variable rates, farmers often prefer variable-rate loans, despite the risk to the borrower.

Surveys of agricultural banks indicate that roughly two-thirds of farm real estate lending in recent years has been at variable rates. To offer lower rates and at the same time to minimize their interest-rate risk, lenders have recently been offering fixed-rate, lower interest loans with short maturities—typically 5 years—that require the borrower to refinance at a new rate.

Potential Market Looks Small

ERS estimates, based on the latest (1988) data available, suggest that commercial banks, life insurance companies, and the Farm Credit System (FCS) originated around \$7 billion that year in farm and farm-related mortgages. This is less than half the annual volume in the early 1980's when credit demand was greater. Volume from these lenders is critical to Farmer Mac's development since these are the principal farm lenders and own the majority of Farmer Mac stock required for participation.

But the actual origination value from which Farmer Mac poolers can draw will be much less. Data for life insurance companies suggest that as much as 25 percent of their \$1.4-billion volume is

Farm Finance

for agribusiness and timber operations, which may not qualify for pooling. Only a handful of life insurance companies are still active in farm lending, so life insurance company participation will depend heavily on the decisions of just a few companies.

If life insurance companies and the FCS hold back, then poolers must rely on commercial banks for most of their origination volume. But much of current farm tending by banks will not qualify for pooling since only 15 percent of banks bought Farmer Mac stock. And those banks account for only 30 percent of outstanding farmland secured debt owed to all banks.

Success of the Farmer Mac market would encourage more banks to buy participation stock. But whether or not the market is successful, much of the \$7 billion annual volume would not meet Farmer Mac's loan documentation requirements. Neither financially strong borrowers nor their lenders will comply with documentation requirements unless they gain substantial benefits.

Even more importantly, the proportion of new funds available for Farmer Mac pooling would be limited because many loans would fail to meet Farmer Mac's loan underwriting standards. If new lending resembles outstanding farm real estate debt, less than half of the \$7 billion loaned in 1988 would have qualified for pooling under Farmer Mac's loan underwriting standards.

Most Farm Operators Don't Qualify

Analysis of USDA's Farm Costs and Returns Survey (FCRS) shows that at the end of 1989, only a fraction of farm operators met Farmer Mac underwriting standards. Only half of farm operators owe any debt, and of those that do, less than a third are estimated to meet Farmer Mac underwriting standards.

Farmer Mac applies seven loan underwriting standards that farmers must meet to be eligible for the market. Several of the standards involve balance sheet liquidity, financial solvency, profitability, collateral requirements, and debt servicing ability. Farmer Mac guidelines identify specific financial ratios for applying these five standards. The ratios with the greatest influence on eligibility are liquidity and debt-servicing ability—poor performance in these two areas severely limits eligibility. Analysis of the 1989 data indicates only about half of farm operators with debt meet Farmer Mac's specified ratios assessing liquidity or debt servicing.

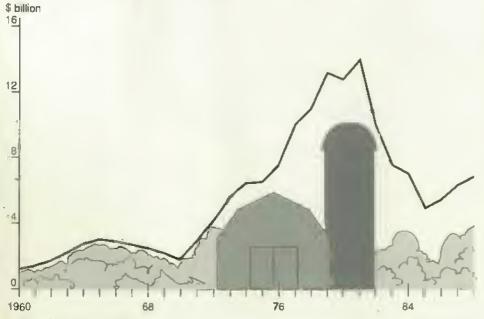
Other standards cover creditworthiness and loan terms and conditions. Although the analysis did not apply these standards to determine the number of eligible operators, it is likely that application of these standards would further reduce the number of eligible farm operators, as well as the value of outstanding debt eligible for the secondary market,

The relatively high creditworthiness needed by qualifying borrowers also suggests that even if the market had been operational sooner, it would have had little effect on easing financial stress among farmers who most needed help. Benefits from an operating Farmer Mac market would accrue primarily to the most creditworthy farmers. But these farmers already receive the most competitive loan interest rates and terms.

Based on FCRS estimates, as little as 20 percent, or \$8.5 billion, of the farm real estate debt owed by farm operators would qualify for sale in 1989. As much as \$3 billion of this debt was owed to lenders unqualified to originate loans for the market. FCRS excludes debt associated with landlords and non-operators, since the FCRS provides estimates only for farm operators. But nonoperators hold less than 15 percent of farm real estate debt.

Because much of the outstanding debt' would not qualify for the Farmer Mac market, the volume available to poolers is substantially limited. And of the volume that does qualify, most would have to be rewritten in order to meet Farmer Mac's loan documentation requirements. Redocumentation not only requires borrower consent, but can also be costly.

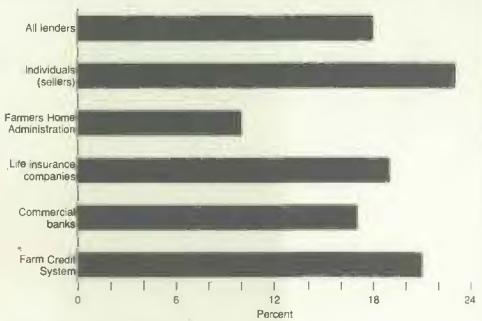
Farm Real Estate Lending Felt Sharply During the 1980's



Estimated values for life insurance companies, commercial banks, and Federal Land Banks,

Farm Finance





Source: Farm Costs and Returns Survey.

Bankers & Poolers Reluctant

Following initial enthusiasm, commercial bank interest in Farmer Mac has waned. One reason is that banks specializing in farm lending—the agricultural banks—now hold fewer loans than normally. Loan-to-deposit ratios for agricultural banks, a common measure of a bank's liquidity, averaged 0.55 in early 1991, far below the 0.65-0.70 range that these bankers consider desirable. Since agricultural banks have low loan-to-deposit ratios, they have little need to sell loans to raise the liquidity of their portfolios.

Bankers' incentive to participate was further reduced when regulators required them to hold capital against the full value of the farm loan sold. Participating banks are required to hold reserve capital so that they can absorb the first 10 percent of loss on any defaulted loan. The 10-percent requirement greatly lowers the profit potential of a loan sale. The requirement is unique to the Farmer Mac market and has been a structural drawback that successful secondary housing mortgage markets do not have to face.

A small primary market either from new originations or outstanding mortgages means a low volume available from which the secondary market can draw. This influences the economics of loan pooling. Without sufficient volume, poolers are reluctant to make the financial expenditures necessary to pool loans. Some also feel that the present structure of the market limits its potential volume.

Proposals for Structural Change

To jump start the market, Farmer Mac has proposed modifying its original structure. Farmer Mac's present structure requires a pooler to initiate the operation by pooling toans, applying for a Farmer Mac guarantee, and then issuing securities to investors.

Farmer Mac has proposed to sell its own securities and create a cost-of-funds index—allowing lenders to tie mortgage interest rates to that index. Poolers would issue securities as before, but Farmer Mac rather than investors would purchase them, holding the securities in its portfolio. By adopting this structure, savings can be realized and passed along to farmers in the form of lower interest rates. This approach is similar to the structure of the secondary market for FmHA guaranteed loans operated by Farmer Mac, called Farmer Mac II.

The Farm Credit Administration (FCA), Farmer Mac's regulator, has rejected this modification on the grounds that Farmer Mac's Federal charter does not allow it to issue or purchase securities. Pending legislation would give Farmer Mac explicit authority to use this approach and would more clearly define FCA's rulemaking authority over Farmer Mac. [Steve Koenig (202) 219-0892 and Jim Ryan (202) 219-0798]

December Releases from USDA's Agricultural Statistics Board

The following reports are issued at 3 p.m. Eastern time on the dates shown.

December

- 3 Egg Products Poultry Slaughter
- 5 Dairy Products
- 6 Celery (1 p.m. report)
- 11 Crop Production
- 13 Milk Production
- 16 Potato Stocks Vegetables
- 17 Turkey Hatchery
- 18 Cattle on Feed
- 19 Catfish
- 23 Cold Storage
 Livestock Slaughter
 Eggs, Chickens, & Turkeys
- 30 Peanut Stocks & Processing
- 31 Agricultural Prices

Food & Marketing



Outlook for Food Prices

oderate increases in most food categories in 1992 are likely to raise average food prices just 2-4 percent above 1991. While the general economic outlook is clouded by uncertainty over the speed of the recovery, larger supplies—and lower prices—of some food commodities will moderate any upswing in the Consumer Price Index (CPI) for food next year.

Food prices in 1991 increased at a much slower pace than in 1989 and 1990. Final 1991 CPI figures will be released in January, but sufficient information is available now to suggest that the rise in the food CPI will be only about 3 percent. By contrast, the food CPI increased 5.8 percent in each of the previous 2 years. This year's food price increase will be the lowest since 1986.

The pace of recovery from the recession remains uncertain. While further easing of credit by the Federal Reserve Board is expected to stimulate the economy, most analysts believe the recovery will be slow. Increased unemployment and decreased income have reduced consumer confidence in 1991, tempering food demand. This year's economic con-

ditions and consumer attitudes will likely carry into 1992, discouraging consumer purchases in grocery stores and in restaurants.

Larger Meat Supplies For 1992

Reduced beef production in 1989 and 1990 tightened supplies and drove retail beef prices to record-high levels. Short supplies and high prices continued into this year, but a modest increase in beef production in the third quarter brought the first quarterly decline in the CPI for beef since the second quarter of 1986. Beef production is expected to increase slightly in 1992, which will mean slightly lower retail beef prices next year.

Pork production also declined in 1990, causing tight supplies and high prices that lasted well into 1991. But higher pork production in the second half of this year has brought retail prices down, most noticeably during the holiday season. Pork production will continue to expand in 1992, resulting in a retail price decline of as much as 8-12 percent.

Poultry production grew at a 5-percent rate in 1991. Retail poultry prices consequently remained relatively stable for most of 1991, but began to fall in the fourth quarter as red meai supplies increased. In 1992, poultry production will continue to expand, but at a slower rate. The modest expansion, coupled with larger supplies of red meats, will likely put next year's average poultry prices below 1991.

Meat and poultry purchases account for 21 percent of consumer food expenditures, exerting a strong influence on food CPI fluctuations. Prices of red meats this year have not increased at the rates of the past few years, and poultry prices have averaged lower this year than last. Beef, pork, and poultry prices have been the major moderating factor in the all-food CPI this year. With meat and poultry prices expected to decline next year, the all-food CPI will increase at an even slower rate.

Citrus Production Still Recovering

Weather had a dramatic impact on fruit and vegetable production in 1991. A severe freeze in California last Christmas seriously damaged citrus crops, reducing fresh market orange supplies. The CPI for fresh fruit increased at a 78-percent annual rate during the first quarter, and 26 percent in the second quarter. As other fruits became more plentiful in the third and fourth quarters, prices began to decline, but remained well above 1990 levels.

Cold, damp weather continued into the spring on the west coast, slowing fresh vegetable growth and disrupting marketing. As a result, vegetable prices were much higher than normal in the first and second quarters of 1991. As vegetable supplies returned to normal in the third quarter, prices declined. In the fourth quarter, however, a serious whitefly infestation has slowed the vegetable harvest, and prices probably will rise.

In 1992, California orange production will not fully recover from last year's freeze, because of tree damage. Domestic fresh orange supplies will not reach pre-freeze levels, and fresh fruit prices will likely remain high through 1992.

The whitefly infestation in southern California will hamper vegetable production through the first quarter of next year. Prices for a number of fresh vegetables will be high and supplies short. As the vegetable harvest proceeds in the second quarter, supplies and prices of fresh vegetables should return to more normal levels. JRalph Parlett (202) 219-0870] AD

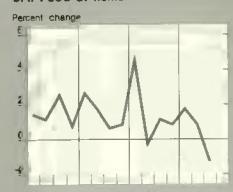
Food & Marketing

Food & Marketing Indicators

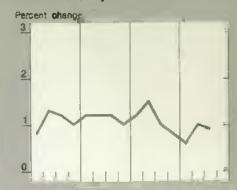
CPI: Total food®



CPI: Food at home



CPI: Food away from homes



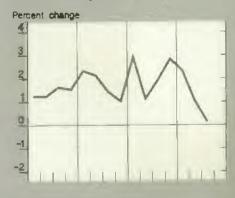
Retail cost of food¹



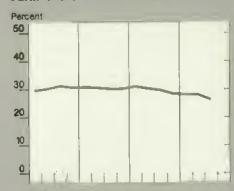
Farm value of food



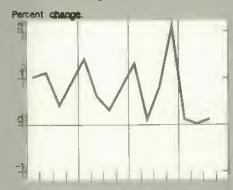
Farm-retall apread1



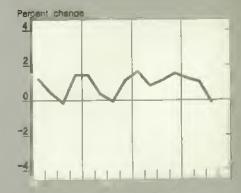
Farm share of retail cost¹



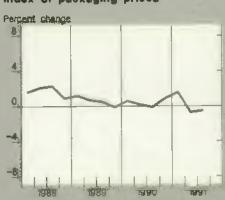
Food marketing coat Index²



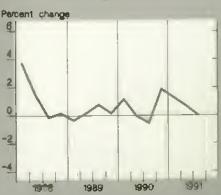
Index of hourly earnings^{8,4}



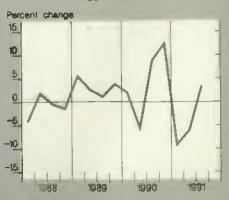
index of packaging prices⁴



index of reli freight rates⁴



Index of energy rates



^aCPI unadjusted. ¹Index based on market based of farm foods. ²Index of changes in labor, packaging, transportation, energy, and other marketing costs. ³In food retailing, wholesaking, and processing. ³Component of food marketing cost index.

All series expressed as percentage change from preceding quarter, except for "Farm share of retail cost" chart.

Policy



Yearend Legislative Report

n November 28, 1990, President Bush signed the Food, Agriculture, Conservation, and Trade Act of 1990, which provided a comprehensive framework for the administration of farm programs for 1991-95. Even before the ink had dried on the new farm act (P.L.101-624), calls for revisions to the legislation began. Adverse weather, concern over the lack of progress in multilateral trade negotiations, and commodity price weakness provided further impetus for change.

The Omnibus Budget Reconciliation Act of 1990 (P.L.101-508), signed before the President gave final approval to the 1990 farm act, had made some amendments to the farm act without changing its fundamental structure. Subsequent farm legislation has been confined to appropriations for fiscal 1991 and 1992 and has not significantly altered the 1990 farm act.

The Dire Emergency Supplemental Appropriations Act (April 1991) removed the \$425-million cap placed on the Export Enhancement Program by fiscal 1991 appropriations legislation. Another provision of the act added funds for mandatory commodity and conservation programs in fiscal 1991 and \$200 million more for food stamp benefits. Budget legislation which President Bush approved on October 28, 1991 authorized \$52.5 billion in agriculture appropriations for fiscal year 1992. Neither the April nor October appropriations package altered the operation of agricultural programs.

Fiscal 1992 appropriations included \$7.3 billion to offset realized losses for the Commodity Credit Corporation's fiscal 1991 commodity price and income support programs. This does not include funding necessary for the 1992 price and income support programs. Actual outlays for these programs in fiscal 1991 amounted to approximately \$10 billion.

About 62 percent of the \$52.5 billion in fiscal 1992 agriculture appropriations is earmarked for domestic food assistance programs, including food stamps, the school lunch program, and the Women, Infants, and Children program (WIC).

No spending cap exists for the fiscal 1992 Export Enhancement Program (EEP). Bonuses to exporters under EEP amounted to an estimated \$917 million in fiscal 1991.

The 1990 farm act authorized establishment of the Rural Development Administration (RDA) within USDA. Though the Bush Administration requested funding for the RDA, no funding has yet been provided.

Congress Proposes Dairy Program Changes

Among the more significant proposals for farm program changes are bills that would modify the dairy program and provide additional disaster relief for the farm sector.

In June 1991, USDA Secretary Madigan presented Congress with the USDA Milk Inventory Management Report mandated by the 1990 farm act. The report evaluated four types of milk inventory management programs: a target price/deficiency payment program, a reclassification plan, a two-tiered pricing plan, and a milk marketing diversion program (see August AO for more detailed discussion). Each option, however, would continue the current dairy program support for milk prices through government purchases of manufactured dairy products—butter, cheese, and nonfat dry milk.

After assessing the potential consequences of each of these types of programs and comparing them with the current dairy program, the USDA report concluded that the current program performs adequately. The report pointed out that the current program enables producers to react to market signals, while providing protection against the risk of large price declines.

Despite the conclusion of the USDA milk inventory management study, Congress has been considering significant changes in the dairy program. Proposed revisions include an increase in milk price-support levels, a voluntary short-term production cutback, a two-tiered milk price support scheme, a long-term milk supply management system, and mandatory fortification of lowfat milk with additional nonfat solids.

All proposed changes would increase support to the dairy sector. But under the "pay-as-you-go" scoring rules of the 1990 Omnibus Budget Reconciliation Act, any changes in the dairy program that involve additional outlays must be offset by producer assessments or by declines in other programs to maintain budget neutrality.

The Senate Agriculture Committee recently approved a bill that would overhaul the dairy program and increase milk prices for farmers. Provisions in the proposed bill include a 10-percent increase in milk price supports, a voluntary diversion plan paying farmers to slaughter cows to reduce milk production, and an increase in milk solids content to increase protein levels in milk.

Policy

The committee approved the bill, folding it into a House bill, H.R.2893, that renews disaster assistance programs.

A bill reported out of the House Agriculture Committee in July (H.R.2837), would have amended the current dairy program by raising the support price for manufacturing-grade milk to \$12.60 a cwt, up from the current level of \$10.10. In addition, the bill would have limited milk production. The Administration, as well as some members of Congress, opposed the bill, which led the committee to amend the proposed legislation. In November, the committee approved a dairy diversion program that would pay farmers to produce less milk, but would raise support prices by \$1 per cwt.

The Administration has indicated that any increase in price supports is not acceptable. Since its low of \$10.02 a cwt last spring, the Minnesota-Wisconsin manufacturing-grade milk price rose to \$12.50 in October, as farmers reduced milk production. This price rise has since reduced some of the pressure for new legislation. At this time, the amended House bill does not appear to have support for a paid diversion program for milk producers.

Disaster Assistance Still Pending

Congress is considering disaster assistance for the third time in the past 4 years, addressing it in four pending bills. Each bill would provide assistance to agricultural producers who suffered crop losses from drought or natural disasters during the 1990 and 1991 crop years.

The Agricultural Disaster Assistance Act, H.R.2893, is the only one of the four bills that has made it out of committee thus far. This bill passed the House in July and was reported out of the Senate Agriculture Committee in October. H.R.2893 would extend the disaster provisions of the 1990 farm act to 1991 crops. Also in late October, the House included \$1.75 billion for disaster relief in dire emergency supplemental appropriations and \$943 million for the Federal Emergency Management Agency (FEMA) in fiscal 1992.

On November 15, the Senate Agriculture Committee approved its version of a Dire Emergency Supplemental Appropriations bill. The Senate bill is similar in content and funding to the House bill, with \$1.75 billion in disaster relief or crop loss assistance, and \$943 million for FEMA to assist communities struck by disasters such as floods or fires.

A major problem with disaster relief at this time is that the Administration believes that the amount of funding provided in the bills for agricultural disasters is excessive, and that the designation of this amount as an emergency requirement is inappropriate. Under the budget law, only emergency funding is exempted from the budget neutrality (pay-as-you-go) requirements. However, both Congress and the Administration must agree on what is designated as emergency spending for it to be exempt.

The Administration would only designate part of the FEMA funds as emergency funding; the remaining FEMA funds and disaster relief would be subject to the pay-as-you-go requirements, necessitating spending reductions in other programs. Congress would designate the entire disaster relief and FEMA appropriations as emergency spending.

Aside from the issue of funding, the Administration feels that existing Federal programs, such as crop insurance and the FmHA disaster loan program, are the appropriate means to help farmers deal with local agricultural disasters, and has taken steps throughout 1991 to expand eligibility for these programs. So at this time, it is not clear what type of disaster assistance program, if any, will become law.

Technical Corrections To 1990 Farm Act

About 45 bills or resolutions currently pending in Congress propose to amend the 1990 farm act. Of these, only the Food, Agriculture, Conservation, and Trade Act Amendments of 1991 (H.R. 3029) have progressed beyond committee action.

This "technical revisions" bill passed the House on July 31, 1991 and was sent to the Senate 2 days later. On November 22, the Senate passed its version of technical revisions. The two versions must now go to a House-Senate conference committee for reconciliation, be voted upon by the full Congress, and if approved by Congress, be forwarded to the President for signature or veto.

The technical revisions bill approved by the House of Representatives makes some changes, but does not alter the basic framework of farm legislation. The 1990 act left many actions to the discretion of the Secretary, and some of the proposed technical corrections would limit this discretion to some extent. Examples of more substantive changes in commodity provisions of the House bill include the following:

- 1. Planting alternative crops (industrial and other crops such as castor beans and mung beans) on 0/92 and 50/92 acreage would be permitted. The 1990 act left this decision to the discretion of the Secretary. Also, under the 0/92 program for wheat and feed grains, acreage devoted to authorized crops could subsequently be planted to other crops, such as soybeans, in the same crop year. In the case of 0/92 acreage double-cropped with soybeans, however, the House bill would limit this authority to farms with an established history of double-cropping during 3 of the past 5 years. The restriction would remove incentives to double-crop acreage that had not been previously double-cropped.
- 2. A preliminary rice program announcement would have to be made no later than December 1 of the calendar year preceding harvest. This would give producers an extended period to evaluate their participation and planting decisions, in light of planting flexibility decisions. Currently, the rice program must be announced by January 31 of the harvest year.

- Combined corn and sorghum permitted acreage would be established for 1992-95 crops. For each crop year, the combined acreage planted to corn and sorghum would be prorated, based on the ratio of each crop's acreage base to the sum of corn and sorghum base acreage established for the year. This change would allow producers to plant these crops in whatever mix they choose. Program payments would be based on historical plantings rather than current year plantings.
- 4. Technical corrections would make the entire projected wheat, barley, and oats deficiency payments after the first 5 months of the marketing year. Under the formula in the 1990 act, producers receive 75 percent of the estimated annual payment after the first 5 months of the marketing year are over. The payment is reduced by any advance payment that may have been made, and the balance is paid after the end of the marketing year.
- 5. Up to 20 percent of a farm's program crop acreage base could be planted to dry peas, lentils, alfalfa, mung beans, and high-erucic oilseeds. The 1990 act generally prohibits the planting of these crops on flex acreage. [Harry Baumes and Robert Green (202) 219-0689] AO

ERS-NASS Video Tapes

ERS: Economic Research for American Agriculture

An historical account of the role of economic research in the success of American agriculture. 7/85. 16 1/2 minutes.

Order No. VT001 \$15,00

Today and Tomorrow

The U.S. Department of Agriculture's Outlook program analyzes the current situation for U.S. and world crops, and provides a forecast of future supplies and prices. "Today and Tomorrow* is an overview of the USDA Outlook program from its beginning in the 1920's, to the current comprehensive program of research and analysis. 3/86. 23 minutes.

Order No. VT002 \$15.00

The Need To Know

Begins with a futuristic "what if?" Opening, and then proceeds to outline the history, significance, and contributions of agricultural statistics and USDA's National Agricultural Statistics Service, 6/88.

23 minutes.

Order No. VT003 \$15.00

Your Hometown

"Your Hometown" is an informative and entertaining look at small town rural America. Originally seen on public television. stations nationwide, and narrated by James Whitmore, the program focuses on three rural communities where citizens use innovative thinking and teamwork to revitalize their own towns. 2/88.

Order No. VT004 \$15.00

Alternative Agriculture: Growing Concerns

Can U.S. farmers produce at a profit while practicing low-input, sustainable agriculture (LISA)? "Growing Concerns" investigates the benefits and drawbacks of LISA. An excellent overview, this documentary was originally seen as a five-part series on national television. 1/89.





Central Europe: Agriculture in the New Market Economies

oncluding a two-part series, AO looks at the transition to market-oriented agriculture in Central and East European countries (CEE's). Part I examined changes and developments in Poland, Hungary, and Czechoslovakia, while Part II focuses on the Balkan states-Yugoslavia, Bulgaria, Romania, and Albania.

Past and present political events in the Balkan states make economic reform all the more challenging. Yugoslav farmers are caught up in civil unrest that reflects long-standing ethnic and national rivalries; Bulgaria is forging ahead with agricultural reform despite precious little experience with private operation in over four decades: Romanian farmers are attempting to rebuild the country's self-sufficiency in agriculture after the damaging policies of the Ceausescu regime; and Albania is overcoming 40 years of isolation from the rest of Europe and preparing to enter the community of developed countries.

As in other CEE's, agricultural profits are suffering as the countries undergo the painful transformation from centrally planned to market-driven economies.

Yugoslavia--Reforms Amidst Civil Strife

Yugoslavia is officially a confederation of republics composed of major South Slav ethnic groups including Serbs, Croats, Macedonians, and Slovenes, as well as a number of national minorities that include Albanians and Hungarians. The population approximates the combined size of New York state and New Jersey-about 24 million persons. Roughly 22 percent of the labor force is engaged in agriculture, and 27 percent in mining and manufacturing.

Yugoslav territory covers an area of nearly 98,800 square miles, making it the largest country in the Balkans and the ninth largest in Europe. It is nearly 600 miles long, with the central portion of the country almost 300 miles wide. The republic of Serbia makes up 35 percent of Yugoslavia's territory and Croatia 22 percent.

Agricultural land covers 57 percent of total area. Although nearly three-fourths of the agricultural land is arable, only 2 percent of arable land is irrigated. The Pannonian Plain, an agriculturally rich lowland area in the north, produces at least 30 percent of the country's grain.

Central and Eastern Europe: Common Borders, Unique Challenges



				4
Grains:	Dominate	CEE	Agriculture	3

	Bulgana	Romania	Yugoslavia	Albania	Total CEE's		
	1,000 metric tons						
Wheat	5,300	7,000	6,530	450	40,680		
Corn	2,200	8,500	12,000	400	30.880		
Barley	1,470	3,000	700	35	14,522		
Rye	45	70	72	12	9,522		
Total grains	9,107	18,859	19,597	927	102,365		
Oilseeds	465	686	577	5	4,206		
Meat & poultry	796	1,255	1,468	NA NA	9,470		
Potatoes 2	538	4,420	2,858	NA	46,202		
Sugar	80	334	885	14	4,413		
Fruits &							
vegetables 2	2,025	5,307	5,040	NA NA	24,700		

NA-not available.

1 1991 output.

Production in 1989 from Country Yearbooks, 1990. Source: USOA

Despite the 21 rivers that flow through Yugoslavia, each longer than 100 miles, their energy, transport, and agricultural potential has not been realized. Moreover, drought and flooding are frequent. Except for the northern plains and a few major river valleys, the country is dominated by mountainous territory stretching from the northwest to the southeast along the eastern shores of the Adriatic Sea.

Yugoslav investment policy has not been especially supportive of agriculture. Agriculture's share of investments has been and still is low. The return on agricultural investment is generally lower than the average return in other sectors of the economy, partly because of low prices for agricultural products. Throughout the 1970's and 1980's, the Yugoslav government used foreign credit largely to develop the Adriatic coast's tourist industry in hopes of generating foreign currency earnings.

The socialized sector of agriculture has been made up of about 2,700 "kombinats," vertically-integrated enterprises that oversee every stage of production from farm to retail. Profits of the kombinats were severely curtailed by soaring interest payments and high debt to federal banks during the past 5 years.

However, for most of Yugoslavia's postwar history, the private sector dominated Yugoslav agriculture. In contrast with most other CEE's, about 70 percent of the land is already in private hands, and the number of socialized farms continues to decrease. The majority of socialized farms are about 125 acres, but some large estates are over 12,000 acres.

Since the early 1950's, following an unsuccessful attempt at complete nationalization of land, the Yugoslav government has allowed private ownership of arable land up to 25 acres. This maximum was based on what a single family was considered able to cultivate without hiring additional help. Most small family farms are 5 acres or less. In 1990, maximum private ownership was abolished, and legislation is currently being considered to return land confiscated from private individuals and churches after World War 11.

Over the past few years, agricultural production has been relatively stable, dominated by cereal production (24 percent of agricultural output) and by livestock, including cattle (21 percent of output), hogs (14 percent), and poultry (10 percent). Industrial crops and vegetables contribute another 18 percent to total output.

Yugoslavia is the third-largest grain producer of the CEE's, following Poland and Romania, with annual production averaging around 16 million tons over the past 5 years. It is one of the highest corn producers of the CEE's, averaging over 9 million tons annually. But Yugoslavia is the smallest producer of barley among the CEE's, except for Albania, averaging 653,000 tons during the past 5 years. Wheat yields are fairly high at 63 bushels per acre, as are barley yields at 51 bushels, but comyields are low, averaging around 66 bushels.

The summer of 1991 saw a record grain crop in Yugoslavia, in contrast to the output following 1990's disastrous drought. The wheat harvest reached a record 6.5 million metric tons in 1991. Although farmers welcomed the large wheat harvest, they now face difficulties in transporting and selling the grain.

Among the most serious effects on agriculture during the current Yugoslav political and ethnic struggles has been the increased cost to producers for inter-republic shipping, as well as for export of commodities. The higher costs are due to taxes imposed by the individual republics, and unreliable transportation as military skirmishes escalated.

The predominantly agricultural province of Voivodina in north Serbia, given its proximity to the areas of military conflict, has been particularly affected by the fighting that intensified throughout the summer months. Voivodina's farmers cannot be guaranteed that their goods will arrive safely to designated areas through inter-republic routes. In addition, sporadic confiscation of goods as they move across republic borders makes it even harder for surplus grain to be distributed to buyers. Previous transportation routes to Western Europe have been

rerouted through Hungary, but this involves the added expense of duties imposed by the Hungarian government.

Before the harvest in mid-July, the Federal government announced austerity measures that eliminated traditional price supports for Yugoslav agriculture, as well as bank compensation for individual farmers' debts. But with the recent grain surplus, the government has agreed to set aside over \$1 billion in new credits to provide support for 60 percent of the estimated value of the 1991 harvest.

In addition to receiving Federal aid, grain producers are actively looking for buyers who are able to purchase the grain surplus, especially with convertible currency. Yugoslavia plans to export at least 1 million tons of grain with a 40-percent price subsidy this year. The Soviet Union reportedly has already contracted for delivery of at least 300,000 tons. If Yugoslav farmers can manage the successful export of grain, they would earn foreign currency that is badly needed for purchasing agricultural equipment as well as other farm inputs.

Bulgaria--Forging Ahead With Reform

Bulgaria's location near water transport points provides it with a number of natural advantages. Bulgaria borders Romania to the north, Turkey and Greece to the south, Yugoslavia to the west, and the Black Sea to the east. Bulgaria is not a large country--only slightly larger than the state of Tennessee (42,683 square miles or 27.3 million acres).

With 1990 GNP of \$43 billion--about the size of Iowa--Bulgaria had the lowest GNP of the CEE's, except for Albania. Its population of 8.9 million inhabitants is the second smallest of the CEE's, but the country has over 200 inhabitants per square mile, compared with the U.S. average of 70 inhabitants per square mile.

Two mountain ranges and two major rivers divide the country geographically and by commodities produced. The Balkan Mountains stretch west to east, trailing the Transylvanian Alps in Romania. To the north of the Balkan Mountains lies the granary of Bulgaria--the Danubian Plateau.

The second mountain range—the Rhodope Mountains—lies in the southwestern corner of Bulgaria. Vegetable and fruit production is concentrated in the Thracian Plain, the valley north of these mountains and south of the Balkan range. The Danube River is the major source of irrigation and transportation for the Danubian Plateau, and the Maritsa River for the Thracian Plain.

Agriculture covers a large portion of Bulgaria's land. Of the 27.3 million acres in Bulgaria, 53 percent is agricultural, over two-thirds of which is cultivated. Besides grains, the Danubian Plateau supports other food and fodder crops. Closer to the Balkan foothills, orchards dot the landscape, while reed and licorice grow wild in the areas nearest the Danube River. The

Thracian Plain's natural vegetation-mid-latitude forest and Mediterranean flora-has been replaced by truck vegetables, fruit orchards, berries, vineyards, cotton, and tobacco.

Wheat, corn, and barley are the most abundant Bulgarian crops, planted on over 50 percent of arable land. Other key crops include sugarbeets, alfalfa, sunflowerseeds, tobacco, fruits, and vegetables. Bulgarian wheat yields of 64 bushels per acre in 1990 were almost 65 percent higher than the U.S. average. By contrast, typical Bulgarian corn yields of 63 bushels per acre were 46 percent lower than the 1990 U.S. average. Barley and cotton yields in Bulgaria were 25 to 60 percent higher in 1990 than in the U.S., while sunflowerseed yields in the two countries were similar.

Nearly 13 percent of the population is employed in agriculture, which shares the labor-intensive character of CEE agriculture. There are 62 workers but less than six tractors per 1,000 acres in Bulgaria.

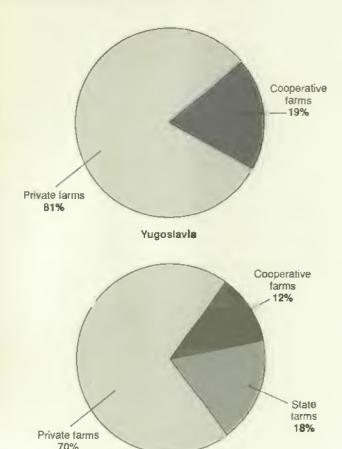
Land collectivization after World War II was extensive; virtually all agricultural land came under state and cooperative control. Since the formation of state and cooperative farms, Bulgaria reorganized the structure of its farm sector several times. In the early 1970's, state and cooperative farms were consolidated into huge agro-industrial complexes, averaging 24,000 acres with several thousand workers, and comprising 84 percent of total agricultural land. The remaining 16 percent of agricultural land was allocated for private operation (but not ownership) in small plots of 1-2 acres. Only 1 percent of total agricultural land is actually privately owned.

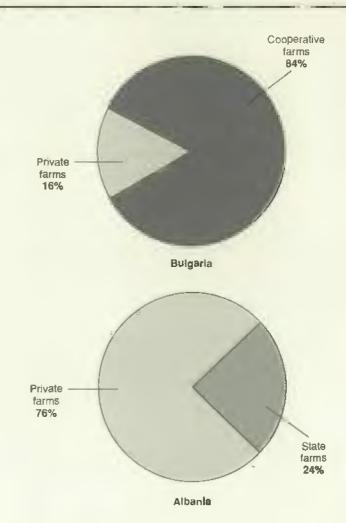
Beginning in 1986, the agro-industrial complexes were gradually broken up into much smaller components. With land reform in the forefront of agricultural change, the agro-industrial complexes have been disbanded altogether and await claims from previous owners.

After a slow start, Bulgaria is forging ahead to establish itself in the forefront of change along with Poland, Hungary, and Czechoslovakia. In spring 1990, while the other CEE's (excluding Albania) were ousting communist leaders and establishing democratic governments, Bulgarians initially used the ballot to re-elect their communist officials. This led observers to doubt that Bulgaria was on the road to reform. But in October 1991, the Bulgarians elected a democratic government.

Agricultural policy reform in Bulgaria has cut farm profits. In February 1991, almost all producer and consumer prices were decontrolled, leading to declines in producer prices and rising consumer prices. With a decline in demand, producer prices fell relative to other prices. Despite the general liberalization, by July 1991 the government provided support for farmers by establishing minimum producer prices for pigs, poultry, calves, and milk, and minimum export prices for calves, lambs, pigs, meat and cheese. Ceilings were shortly placed on some consumer prices in response to high inflation.

Most Forms in Bulgaria Are Still Collectivized





Structure of land ownership, 1991.

However, the real economic picture for Bulgarian farmers is seen in the relative input and output prices. Input suppliers and output purchasers are still acting in a monopolistic fashion. Input prices have risen dramatically while procurement prices paid to farmers have risen more slowly. Thus, the short-term impact of price liberalization has been to decrease net returns to farmers and reduce incentives to produce.

Romania

Area sown to spring crops of corn, soybeans, and potatoes in 1991 was down as much as a third from 1990. Vegetable production is reported down 37 percent from a year earlier. Animal numbers, and milk and egg production are also reported lower.

So far, the combination of reduced supply and a fall in demand because of lower incomes has averted shortages. To ensure full shelves this winter, however, Bulgarian officials have set restrictions on exports of some basic agricultural commodities, such as bread, coarse grains, sunflowerseeds, and vegetable oils. Other measures include a surtax of 15 percent for most imports, and minimum export prices to discourage livestock sales to foreign buyers.

The foreign trade sector has undergone significant reform in the past year. And, while many of the changes are trade enhancing, the economic and political disruption in the region, including the Soviet Union, has put strong downward pressure on Bulgaria's exports as it has for other CEEs'. Bulgaria has historically been closely tied to the Soviet Union, but is making new efforts to attract the interest and investment of Western countries.

Romania--Recapturing Agricultural Productivity

Romania borders the Black Sea to the east, Bulgaria to the south, Yugoslavia and Hungary to the west, and the Ukraine and Soviet Moldavia to the north. The third-largest CEE with an area of 91,699 square miles (58.7 million acres), Romania is about the size of Oregon or Wyoming. But its 23 million inhabitants make it one of the most densely populated CEE's, with 253 persons per square mile.

Romania's GNP in 1990 was estimated at \$94 billion, the fourth largest among CEE's, with per capita GNP at \$4,043. Over half the population is urban, and about 20 percent of the population is engaged in agriculture.

Sixty-two percent of Romania's land is agricultural (36.4 million acres). Over 23 million acres are arable, and approximately 13.5 million acres are planted to cereal crops. Romanian agriculture is labor intensive, with approximately 100 workers--but only seven tractors--for every 1,000 acres.

The Carpathian Mountains and the Transylvanian Alps, along with the Danube and Prut Rivers, define the major agricultural areas of Romania. In southern Romania, between the Transylvanian Alps and the Danube River, lies Walachia--the breadbasket of Romania--which provides half the annual grain harvest and roughly half the fruit and grapes.

To the west of the Carpathians and north of the Transylvanian Alps is Transylvania, with poor soils and rough terrain restricting large-scale mechanized farming. Livestock production dominates in the mountains of Transylvania, while potatoes and some grains are grown in the central basin.

The major grains planted in Romania are corn, wheat (predominantly winter varieties), and barley. Corn and wheat area comprise over half of all arable land and 90 percent of land planted to grains. Important nongrain crops include hay and silage, sunflowers, potatoes, soybeans, and sugarbeets.

Crop yields in Romania vary considerably--especially compared with those in the U.S. For example, corn yields at 47 bushels were about 40 percent of the 1990 U.S. corn yield, while soybean yields at 11 bushels per acre were less than a third of 1990 U.S. yields. On the other hand, Romania's wheat yields of nearly 53 bushels per acre, and barley at 55 bushels, were almost 20 percent higher than U.S. yields in 1990. Sunflowerseed yields are about equal in the two countries.

The transformation from centrally planned to market economy in Romania is especially challenging because of the economic policies of former President Ceausescu during the last 20 years. Ceausescu's economic policy was an extreme example of the East European communist emphasis on industry over agriculture. Rural villages were literally destroyed in order to force people into urban industrial areas.

During the 1920's and 1930's, before communist rule.

Romania's abundant production enabled it to export agricultural products to the rest of Europe. But by the 1970's and 1980's, Romania could scarcely feed its own people.

Wherever possible, Ceausescu and his predecessors consolidated land into large state and cooperative farms. By 1990, 73 percent of agricultural land had been collectivized into cooperative farms, and 18 percent into state farms, leaving only 9 percent under private ownership. At an average size of over 12,000 acres, state farms had priority access to machinery, chemicals, and irrigation. Workers on cooperative farms, which averaged over 7,000 acres, owned their own land and certain basic equipment, but these farms had little more autonomy than the state farms.

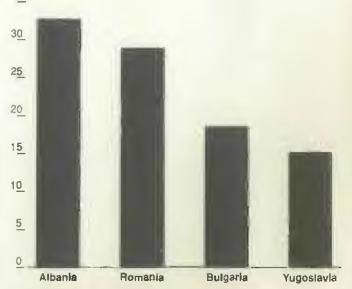
Private farms, on the other hand, were usually less than 1 acre and located in relatively inaccessible mountainous regions where use of heavy machinery was impractical. Nevertheless, productivity on this land had higher yields per acre than cooperative and state-operated land.

In addition to the 9 percent of agricultural land under private ownership, about 8 percent of land on cooperative farms was reserved for individual farming needs, so that 15 percent of total agricultural land was effectively under private, rather than state, control.

Privately operated land yielded four times more fruit output per acre than state farms, and had significantly higher yields in grain, milk, beef, pork, and vegetable production. Data from 1987 show that 50 percent of sheep meat, 40 percent of beef,

Agriculture Remains a Large Sector in the Balkan Economies

Percent of 1990 GNP 35



Source: PlanEcon, July 1991.

Land Reform Challenges The CEE's

Bulgaria

The scope of land reform in Bulgaria is still somewhat narrow. A Law for Agricultural Land Ownership and Use was passed in February 1991. The main provision is to return land to original owners or their heirs as indicated in the 1946 Agrarian Reform Law.

Land ownership is limited to 20 hectares (49.4 acres) in "intensive" areas of cultivation and 30 hectares (about 74 acres) in hilly or mountainous areas. To prevent fragmentation, the land that owners receive is not necessarily their original holding, but owners are entitled to receive plots equivalent in size and quality. The land must be used for agricultural purposes, though an owner may lease the land to someone else who will use it for agriculture. The land may not be sold for 3 years, and foreign ownership is prohibited.

An interesting development in Bulgaria's land reform process is that relatively few people (only 10 percent by late September 1991) have claimed land previously owned or held in title. This may force the government to maintain state and cooperative farms until the land is either claimed, or sold to citizens wishing to farm.

Another possible solution is settlement by landless individuals or those who would like to return to agriculture but have only small parcels of land. Municipal land commissions (set up to deal with the land reform question) may allocate land to these people from acquired stocks of unclaimed land and land purchased from individuals not interested in farming.

Romania

Because so much of Romania's agricultural land was collectivized into state or cooperative ownership, land

reform has become a key agricultural issue. Romanla's post-communist land law, passed in February 1991, did not focus primarily on the restitution of previous owners' specific land parcels, but did acknowledge property rights of citizens whose land was incorporated into cooperatives.

Through an intricate set of guidelines, each claimant is to be compensated with land up to 10 hectares (24.7 acres). Restrictions were established on selling, farming, foreign ownership, and family plot size. In addition, those whose land was confiscated for state farms will become shareholders in new agricultural joint stock companies, which have replaced the old state farms. Land not claimed will be forfeited to the state.

The intent of the law is to encourage landowners back into cooperative farming, although with a more autonomous structure than in previous years. This may save Romania from fragmentation of farming units (as currently exists in Poland). Surprisingly enough, this land law along with Albania's new land legislation has been among the most effective in distributing land to private landowners in a timely fashion. Recent estimates indicate that almost 70 percent of agricultural land is now in private hands in Romania.

Albania

The agricultural landscape in Albania has changed considerably since the beginning of communist rule. In 1950, 92 percent of the agricultural land was owned by the private sector, with the remaining 8 percent owned by either the state or the cooperative sector. By 1989, none was in private hands—all agricultural land was owned by the state or cooperatives.

A bill passed in May 1991 addressed land ownership, and has succeeded in distributing former cooperatively owned agricultural land for private use. Disputes erupted over redistribution, but thus far, it has been the most effective land ownership restitution bill in all the CEE countries. Currently, approximately 76 percent of agricultural land is estimated to be privately held.

28 percent of pork, and 63 percent of fruit production came from private production sources.

Throughout 1990 and 1991, Romania experienced high inflation and profitability in farming has suffered. Food prices were decontrolled in February 1990. However, this first round of price revision applied to only a small portion of available supply. On April 1, 1991, the second—and broader—round of price deregulation on agricultural commodities was instituted. Within the month, food prices rose 58.6 percent, while prices of nonfood products and services rose 5.4 and 16.1 percent.

Laws were abolished in 1990 that had required producers to sell all agricultural commodities to the state, and prices paid by the

state for agricultural products were raised 40 percent on average. Since then, more agricultural commodities have been sold in a free market, at prices higher than those prescribed by the state--products such as fruit, vegetables, live animals, and cheese. In addition, private supplies of wheat, corn, and other storable commodities have increased dramatically with the abolition of obligatory sales.

Agricultural trade was an important source of hard currency earnings to Romania both before and during communist rule, but has been a major cause of hard currency debt since Ceausescu's death. Even with lower production under communist rule, the Ceausescu government earned hard currency by selling scarce agricultural products to the West at the

expense of domestic food supplies. Through these measures, the government was able to pay off all its foreign debt.

When Ceausescu fell, the interim government halted the export of food in order to improve domestic availability. In addition, imports of agricultural commodities were allowed, in order to satisfy pent-up demand for basic commodities such as sugar, coffee, and meat. In the last 2 years, Romania's agricultural trade deficit with the U.S. alone has been over \$250 million. As this winter approaches, the government is concerned again about the adequacy of food supplies. The EC and the U.S. are currently considering food aid packages.

Romanians hope that in the near future, their new freedom combined with the country's natural resources will enable the country to regain prominence in agricultural production.

Albania--Leaving Isolation Behind

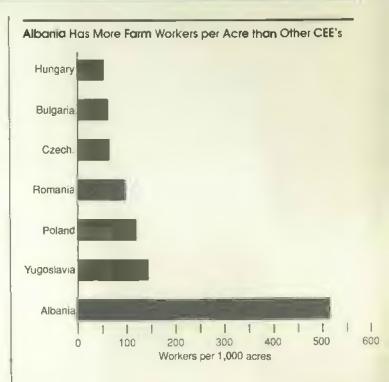
Situated on the Adriatic coast and bordering Yugoslavia and Greece, Albania was the most isolated country in Europe and the last to relinquish communist rule. It is now attempting to become a democracy with a market-oriented economy. But 20 years of isolation will make reintegration into the community of European countries difficult.

In fact, Albania's relatively high population growth of over 2 percent per year, and its large proportion of GNP in agriculture-33 percent in 1990-cast it as a less developed country rather than a developed, centrally planned economy. A relatively primitive industrial sector distinguishes Albania markedly from most of its CEE neighbors.

Enver Hoxha, Albania's Stalinist leader for 40 years, became Party First Secretary in 1944, and in 1946 proclaimed the country the People's Republic of Albania. With the help of Yugoslav communists, Albania became a tight-fisted Marxist-Leninist system modeled after the Soviet Union. Forced industrialization, political repression, and a one-party system followed. Throughout the next 44 years, Albania successively aligned itself with Yugoslavia, the Soviet Union, and the People's Republic of China.

By 1968, relations were effectively severed with the Warsaw Pact countries and China, and by 1970. Albania had retreated into self-imposed isolation. Not until after Hoxha's death in 1985 did relations with other countries begin to thaw. In the process, some political liberalization was permitted.

A railway established with Yugoslavia in 1986 (closed in 1988 following ethnic conflicts involving Albanians in Yugoslavia) brought broader contact with the "outside world." A movement toward political and economic freedom followed, culminating in March 1991 with the first free elections in over 40 years. The elected government is comprised of both communists and democrats. Albania has since reestablished ties with the U.S.



and other countries, and in June 1991 was admitted to the Conference on Security and Cooperation in Europe.

Neither the country nor the economy of Albania is large. Its population of 3.2 million is comparable to Connecticut's, although with about 6 million acres, Albania's area is about twice the size of Connecticut. The government does not report national income, but Albanian GDP in 1990 was estimated at \$3.8 billion. That translates into about \$1,200 per capita, making it the poorest country in Europe.

As in many centrally planned economies, growth in the industrial sector was emphasized over the last 40 years and focused primarily on the manufacture of machinery and other producer goods. However, the agricultural sector still employs over 50 percent of the population.

Both agriculture and industry were fully socialized under communist rule, with 74 percent of enterprises state-owned and the remaining 26 percent organized as cooperatives. Agriculture's share of national income declined significantly from 74 percent in 1950 to 39 percent in 1960. Since then, its share of national income declined further to just under 33 percent in 1989 when the industrial sector stood at 45 percent.

With 520 agricultural workers and less than eight tractors per 1,000 acres of land, Albanian agriculture is highly labor intensive. Nevertheless. Albania has enjoyed some agricultural successes. The number of animals has increased gradually in the last three decades. Caule and milk cows have doubled from 1960 to 1989, while poultry nearly quadrupled from 1.6 million birds in 1960 to 5.6 million in 1989.

Cultivated land increased by more than 16 percent over the last two decades and yields rose for all crops, although yields are still among the lowest in Europe. Principal crops include wheat, corn, potatoes, sugarbeets, cotton, and tobacco. Average wheat yields in 1990 were 36.8 bushels per acre-comparable to U.S. yields but much lower than other European wheat yields which average from 50 to 75 bushels. Corn yields were under 60 bushels per acre in 1990—half the U.S. average.

Although Albania's balance of payments deficit is small relative to other CEE's—about \$92 million in 1989—the deficit has led to serious economic hardship. In 1989, imports consisted mainly of machinery and equipment (28 percent), minerals and metals (26 percent), nonfood raw agricultural materials (18 percent), and chemicals (12 percent).

In normal weather, Albania is self-sufficient in food production. In recent years, however, drought in southern Europe has forced Albania to import food for its own population. With a shortage of hard currency, Albania is currently unable to import enough food to maintain previous consumption levels. The current food shortage, due both to weather and structural adjustments with reform, is leading Albania to seek help from the international community, and the EC has provided grain shipments.

Albania specializes in the export of energy, minerals, and metals. Of chief importance is the export of chromium, copper, and nickel, as well as the sale of hydroelectric power to Yugoslavia and Greece. Other important exports are food and other agricultural products, but there has been little excess for export in the last 5 years.

Socialization of property was extensive in Albania immediately after World War II. To date, some privatization and foreign joint ventures are still being discussed, while a land repatriation bill was passed in early 1991. One major area to be addressed involves safety and environmental conditions in both the industrial and agricultural sectors of the economy. As these problems are tackled, joint ventures and economic aid may be offered to Albania.

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1992 Outlook Uncertain In the Balkans

Economic and political turmoil in the Balkan economics adds considerable uncertainty to the agricultural outlook for 1992 in these countries. For Bulgarian agriculture, stability in supply and demand is likely to return gradually, following the imbalances of 1991. Assuming normal weather and stable policy, production is expected to fall more into line with the recent declines in demand. This should help stabilize most commodity prices and shrink exportable surpluses.

But the outlook for Romanian agriculture in 1992 looks no brighter than 1991's performance. Decreasing consumer demand from higher prices and declining incomes is partially masking more severe food shortages. But unless significant gains are made from policies designed to restore economic stability, especially in controlling inflation, imbalances in agricultural output and input marketing will continue to result in shrinking supplies of food delivered to retail channels.

Although Romania appears to have sufficient food stocks on hand, it is appealing for food aid. This appeal is partly due to producer reluctance to sell to state procurement agencies, and subsequent stockpiling by producers. Producers' reluctance to sell their output stems from dissatisfaction with current prices and uncertainty about future inflation.

Other problems affecting food availability in Romania include a breakdown in input markets and farmer uncertainty over ownership and control of the land. Because Romanian land privatization has proceeded quickly and haphazardly, crop production has been disrupted. Severe restrictions on farmers' crop choice, and on the sale of land, are still enforced in Romania.

Yugoslavia's outlook for 1992 is clouded by the civil unrest that continues to plague the country. Farmers in key producing regions are uncertain that their output can be delivered to domestic or foreign markets. Inter-republic border trade faces rising nontariff trade barriers.

Meanwhile, the future for Albanian agriculture in 1992 is contingent on effective economy-wide market reforms and clarification of land ownership rights. Although Albania's land reform has been successful in distributing cooperative (though not state) lands to peasant farmers, the lack of available inputs and the rapid pace of change have left many farmers confused. Many of them view themselves as unemployed, rather than as new landowners. State farms and food aid from the U.S. and EC will be retied upon to meet domestic food demand and forestall further social discord. [Jason Lamb and Danielle Sremac (202) 219-0621]

Special Articles





The U.S. & Mexico: Interdependence Growing

n many respects the U.S. and Mexico have little in common besides their border. Per capita gross domestic product (GDP) in the U.S. is 10 times Mexico's. Anglo-Saxon traditions played a predominant role in shaping U.S. institutions, while Mexico is a mixture of native and Spanish cultures. The differences combined with simple geography have bound Mexico and the U.S. in a relationship of economic interdependence that has not always been harmonious. Today the differences are also creating opportunities for greater economic integration and interdependence.

In a five-part series, Agricultural Outlook examines U.S.-Mexico relations. Part I provides a general overview of the history and the current state of economic relations. Parts II through V take a closer look at agricultural relations between the two countries, emphasizing trade, labor and investment, environmental issues, and the pending North American Free Trade Agreement.

History & Culture Influence Development

Even before England and Spain colonized North America, characteristics of the native populations set the future U.S. and Mexico on different historical paths. The nomadic tribes encountered by English settlers were ultimately displaced, allow-

ing English culture to be transplanted to its North American colonies relatively intact. By contrast, the relatively settled native civilizations conquered by the Spanish in the region that became Mexico made for a difficult but inevitable mixing of cultures.

Differences between the English and Spanish cultures further separated the course of development. England was accustomed to rule by a limited monarchy with an active parliament, and separation of church and state affairs. Spain was ruled by an absolute monarchy with strong church ties. England led the industrial revolution, while in Spain the industrial revolution matured slowly and the economic structure remained largely feudal into the 20th century.

The new U.S. republic set out on a course of political stability and relatively widely distributed economic wealth. Mexico, on the other hand, was left in complete disarray after revolution set it free from Spain in 1821. A vicious cycle of political instability and economic weakness plagued the country, making it ripe for exploitation.

Emerging Ties Broken

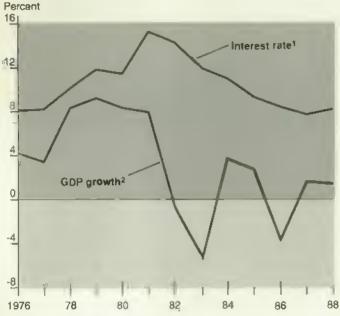
Even though the independent Mexico opened its territory for settlement to a much greater extent than Spain had allowed, sentiments of manifest destiny in the U.S. led to conflict. The U.S. encouraged secession by Texas from Mexico as a prelude to annexation in 1845, and in 1846 declared war against a much weaker Mexico. The treaty that ended the war gave the U.S. half of Mexico's territory, including California on the eve of the gold rush.

When Porfirio Diaz took power in 1876, Mexico embarked on a period of political stability and economic growth that lasted until 1910. Diaz eased restrictions on land ownership and subsoil resource use in order to attract foreign investment. Geography dictated that U.S. investors would respond the most readily. But Diaz' dictatorship was also extremely repressive and failed to distribute the benefits of economic growth widely. This was a major factor contributing to a second Mexican revolution beginning in 1910.

The U.S. & Mexico-Key Statistics Show the Differences

	U.S.	Mexico
Population (millions)	248.2	84.5
Per capita GDP (US\$)	20,756	2,375
Population in agriculture (percent)	2.5	27.6
Average age of population (years)	32.0	22.0
Education (years of schooling)	11.0	7.5
Arable land (million acres)	464.1	57.3

High Interest Rates Dampen Mexico's Economic Growth



¹Average interest rate on Mexican debt.

21982 dollars.

After initial improvement with increased economic ties, U.S.-Mexico relations began to deteriorate again, as a series of Mexican presidents pushed for varying degrees of political and economic reform in a nationalistic environment which threatened U.S. investments. The U.S. responded with periodic diplomatic and military intervention in attempts to influence Mexican politics until Franklin Roosevelt introduced his Good Neighbor Policy. Signalling a new era of U.S.-Mexican relations was a negotiated settlement in 1938 for compensation of U.S. oil companies adversely affected by nationalization of the Mexican oil industry.

Strengthening Relations

World War II brought increased U.S.-Mexican cooperation, as Mexico supported the U.S. war effort by supplying U.S. factories with raw materials and labor. Relations continued relatively smoothly through the 1960's, even though Mexico distanced itself from Cold War politics.

Mexico's economic policies encouraged U.S. investment to support stable Mexican industrialization. The Mexican government's goal was to free Mexico from reliance on producing a few raw materials for export while importing virtually all other goods. Public investment in communications and transportation, as well as targeted subsidies and trade protection, encouraged substitution of domestically produced goods for imported products.

Maquiladoras--Production Sharing At the Border

Maquiladoras are assembly plants specializing in production for export. Most are located in a special trade zone along the U.S.-Mexican border, where they are able to take advantage of special provisions in the U.S. tariff schedule and in Mexican industrial policy.

Component parts are shipped from the U.S. to Mexico for assembly, with the express intention of taking advantage of cheaper Mexican labor. When re-exported to the U.S., only the value added to the goods is subject to tariffs. For its part, Mexico allows the maquiladoras to import plant equipment duty-free and exempts them from domestic content rules and limitations on foreign ownership,

In exchange for Mexican concessions, the plants were required to locate at the border until 1972. Ninety percent still remain in this location. Since the establishment of maquiladoras in 1965, the number of plants has increased from 12 to 1,441 in 1988, when employment reached 390,000 and value added equaled \$2.3 billion.

During the same year, the maquiladoras provided 25 percent of Mexico's manufactured exports on a value-added basis. Machinery and equipment account for 87 percent of Mexico's value-added production, with parts for televisions and electrical and electronic equipment, office machines, and transportation equipment the primary outputs.

Studies of the maquiladoras have found that they incorporate more U.S. components than similar assembly plants located elsewhere. And by some estimates, an increased demand for U.S. components, together with the demand for servicing the imports and exports, has created more U.S. jobs than would have existed in the absence of the maquiladoras.

For Mexico, the maquiladoras have undoubtedly provided jobs and foreign exchange. However, they have not lived up to expectations that the maquiladora border region would become more firmly integrated with the Mexican economy, with greater social and economic benefits distributed among Mexican citizens.

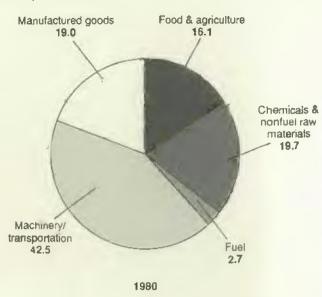
In the early 1970's, however, increasing government intervention in Mexico's private sector and growing protectionism soured the business climate for foreign investors. An economic crisis was averted by oil and natural gas discoveries in the latter half of the decade.

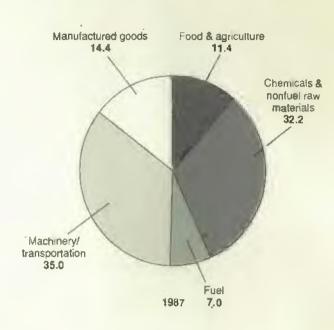
The resulting optimism for Mexico's future generated largescale development projects financed through foreign borrowing. At the same time, the U.S. found its fortunes also heavily tied to oil, but with a different result. The combination of

Special Articles

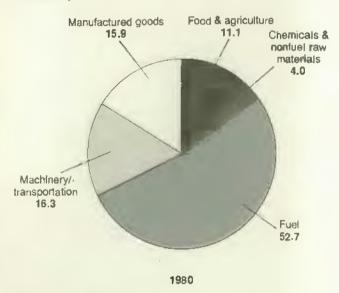
Mexico Is Exporting More Machinery and Manufactured Goods to the U.S.

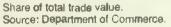
Mexican imports from U.S.

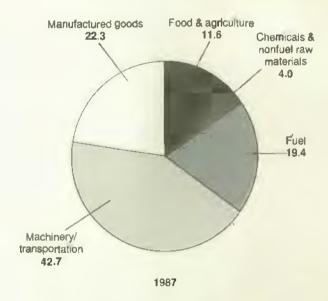




Mexican exports to U.S.







economic growth in Mexico and foreign oil dependency of the U.S. gave Mexico a new measure of independence.

Mexico's new-found confidence collapsed in the early 1980's. Lower world oil prices and high interest rates revealed the excesses of previous decades' deficit financing and foreign borrowing. The International Monetary Fund negotiated a multibillion-dollar rescue package to address Mexico's growing debt problem.

But even as Mexico's vulnerability to macroeconomic developments in the U.S. became evident, an increased reliance of the U.S. on Mexico was also apparent. As a result of Mexico's economic crisis, merchandise imports from the U.S. declined by \$8.7 billion, or 48 percent, between 1981 and 1983. The drop in Mexican imports has been estimated as equivalent to a loss of 220,000 U.S. jobs, concentrated in the manufacturing sector.

Recent dramatic changes in Mexican policy have refueled economic recovery and poised the country for further integration with the U.S. The Mexican government has committed the economy to market-oriented reforms, including reductions in trade barriers, sale of public enterprises, and deregulation.

Success is evidenced by rising output and investment, and declining inflation. In addition, the ratios of debt and the government deficit to Mexico's gross domestic product fell. Mexico's new openness has led it into negotiations with the U.S. and Canada for a North American Free Trade Agreement (NAFTA).

Asymmetry Remains, Ties Strengthen

In the past, the asymmetric relationship arising from divergent histories has most often been reflected in patterns of U.S.-Mexican trade and investment. More recently, differences involving environmental protection and migration are also emerging.

The asymmetry in trade between the U.S. and Mexico is most apparent in the patterns of exports and imports. Even though Mexico is the third-most-important export market and the fourth-most-important source of imports to the U.S., only 5 percent of U.S. exports flow to Mexico and only 4 percent of U.S. imports originate in Mexico. On the other hand, 78 percent of Mexican exports are destined for the U.S., and 74 percent of Mexican imports originate in the U.S.

Two-way trade between the U.S. and Mexico is dominated by machinery and transport equipment. In addition, petroleum and petroleum products flow from Mexico to the U.S., while chemicals and plastics are exported to Mexico from the U.S. Foodstuffs make up approximately 10 percent of each country's trade with the other.

Changes in the composition of U.S.-Mexican trade signal increasing integration with the U.S. economy. Declines in Mexican imports of consumption goods and capital have been accompanied by a rise in imports of intermediate or component goods--to 72 percent of total Mexican imports. Correspondingly, Mexican exports of manufactured goods have risen to 48 percent of total exports, while the proportions of agricultural and oil exports have fallen.

Behind these statistics lies a shift toward "production sharing" between the U.S. and Mexico. With production sharing, component parts produced in the U.S. are exported to Mexico, where they are further processed and often re-exported to the U.S.—hence the increase in Mexican imports of intermediate goods and in Mexican exports of manufactured goods.

Reducing Mexican Dependence on Oil Revenues

Prior to the late 1960's, Mexico was a net exporter of oil. During the late 1960's and early 1970's, however, the country's demand outstripped supplies, and Mexico reverted to a net oil importer. Then, discoveries of vast oil resources in southern Mexico's Tabasco-Campeche Basin in the late 1970's returned Mexico to its earlier position as a net exporter of oil.

Crude oil exports increased more than 300 percent as production rose by 98 percent between 1977 and 1980. Dramatic increases in oil prices during this period sent export revenues skyrocketing. From \$1 billion in 1977, Mexico's petroleum export revenues rose to \$10.4 billion in 1980.

However, the oil discoveries also led to concerns that Mexico might become too dependent on oil exports or on a single market for its export revenues. Of chief concern was its reliance on the U.S. as a major source of demand for Mexican oil.

As a result, PEMEX, the government entity which holds a monopoly over Mexico's petroleum resources, was directed to curb production and exports beginning in 1980. Daily crude oil production was limited to 2.5-2,7 million barrels, and exports to approximately 50 percent of production. PEMEX could not sell more than half of Mexico's oil exports to any individual country, nor could PEMEX supply more than 20 percent of a country's oil imports. In addition, foreign exchange earnings from oil exports were limited to 50 percent of Mexico's total foreign exchange earnings.

Mexico was successful in two of its goals. Production has been curtailed, and Mexico has successfully met the 50-percent limit on the share of total oil exports sold to a single market. Sales to the U.S. dropped from an average of over 80 percent in the late 1970's to approximately 50 percent of total Mexican oil exports by 1981. Mexico has broadened its markets, increasing shipments to Europe and Japan.

Achieving the goal of reduced reliance on oil exports for foreign exchange took longer. In 1981, oil trade accounted for 75 percent of Mexico's total export revenues. Not until 1986 did this figure dip below the 50-percent target.

Special Articles

The arrangement makes more efficient use of Mexican labor and U.S. capital and production processes. In the automobile industry, for example, production sharing has led to assembly of engines in Mexico employing U.S. components and technology. The engines are then exported back to the U.S. for final assembly into automobiles.

Mexico also depends on the U.S. for more than two-thirds of its direct foreign investment. U.S. direct investment in Mexico doubled between 1987 and 1990, but still accounts for only 2 percent of total U.S. foreign investment.

U.S. investment is heavily concentrated in manufacturing, and closely associated with the production sharing process. As far back as 1979, more than half of U.S. manufacturing imports from Mexico were intracompany or related-party sales, and this proportion is growing.

U.S. investment is also aimed at taking advantage of expansion in Latin American markets resulting from economic and population growth. The U.S. economy becomes more closely integrated with Mexico's as U.S. capital invested in Mexico facilitates the combination of U.S. technology and components with Mexican labor to supply both the U.S. and Latin American markets.

Migration & Environment Will Affect Future Relations

U.S.-Mexican relations in the 1990's will be defined in part by the way in which the two countries deal with migration and environmental issues. Mexicans emigrate to the U.S. primarily for economic reasons, but benefits accrue in both economies.

For more on the relationship between the U.S. and Mexico, try:

Danie! Levy and Gabrie! Székely. Mexico: Paradoxes of Stability and Change. Westview Press. 1987.

W. Dirk Raat and William H Beezley, editors. Twentieth-Century Mexico, University of Nebraska Press, 1986.

Sidney Weintraub. A Marriage of Convenience: Relations Between Mexico and the United States. Oxford University Press, 1990.

Mexicans employed in the U.S. relieve unemployment pressures within Mexico, as well as strengthening Mexico's balance of payments by sending wages home. While of far less significance to the U.S. economy, migrating workers from Mexico provide labor to firms that would not otherwise attract workers at the given wage.

Recent estimates of legal immigration from Mexico to the U.S. range between 50,000 and 75,000 persons each year. The flow of undocumented Mexicans remaining in the U.S. each year is estimated at 50,000-160,000 persons. The undocumented workers are most often males, and 80 percent are less than 30 years of age. Their employment is scattered across each sector of the economy--agriculture (17 percent), manufacturing (35 percent), construction (11 percent), and services (37 percent)--although their total numbers amount to less than 3 percent of the U.S. labor force.

Until 1986, the degree of Mexico's labor market interdependence with the U.S. fluctuated with U.S. domestic economic conditions, but generally grew. This growth was fostered by population and economic pressures in Mexico and the tacit consent of the U.S., which declared employment as illegal for undocumented workers but not for their employers.

Responding to labor union pressure, the U.S. has since passed legislation making it illegal to employ undocumented workers, but the impact of the legislation is not yet clear. However, the existence of a 2,000-mile common border and Mexican objections to the new U.S. legislation suggest a need for greater cooperation to address the migration issue.

Mexico's less stringent environmental regulations and inadequate resources for enforcement have led to water quality problems with cross-border implications. Examples include the salinity of the Colorado River and inadequate treatment of wastewater before release into the Rio Grande and the Tia Juana River. Serious air pollution problems exist in the population centers at San Diego, California-Tijuana, and at El Paso, Texas-Ciudad Juárez. Improper disposal of hazardous wastes by both U.S. and Mexican entities on the Mexican side of the border is causing further damage.

One example of institutional cooperation on surface water quality is the International Boundary and Water Commission, which has operated on both sides of the border with U.S. and Mexican personnel since 1932. However, conflicting regulations in the four border states and Mexico have hampered efforts to settle on appropriate cooperative action on groundwater contamination and hazardous waste disposal. At the same time, environmental problems at the U.S.-Mexico border are making it clear that interdependence between the countries is especially significant in this area. [Ann Hillberg Seitzinger (202) 219-0630] AO

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Statistical Indicators

Summary Data

Table 1.—Key Statistical Indicators of the Food & Fiber Sector

	1990			1991				1992	
	Arinual	1	11	III	IVF	Annual F	IF	ПF	Annual F
Prices received by farmers (1977=100) Livestock & products Crops	150 170 128	146 1 67 124	152 165 136	149 159 137	141 157 125	148 163 132	1 43 158 128	Ξ.	Ξ
Prices paid by farmers, (1977=100) Production items Commodities & services, interest, 1axes, & wages	171 184	173 188	175 190	173 189	173 189	174 189	=	Ξ	Ξ
Cash receipts (\$ bil.) 1/ Livestock (\$ bil.) Crops (\$ bil.)	169 90 79	162 67 75	171 84 87	174 87 87	167 90 77	166-171 85-89 79-83	Ξ	=	Ξ
Market basket (1982–84±100) Retail cost Farm value Spread Farm value/retail cost (%)	134 114 144 30	137 109 153 29	139 109 154 28	137 105 154 27		——————————————————————————————————————		Ξ.	=
Retail prices (1982–84=100) Food At home Away from home	132 132 133	136 136 136	137 137 137	136 135 139	137 136 141	137 136 138	=	=	Ξ
Agricultural exports (\$ bil.) 2/ Agricultural imports (\$ bil.) 2/	40.1 22.5	11.3 5.8	8.8 5.5	8.4 5.3	=	37.5 22.5	=	=	=
Commercial production Red meat (mil. lb.) Poultry (mil. lb.) Eggs (mil. doz.) Milk (bil. lb.)	38. 608 23,635 5.660 148.3	9,465 5,837 1,416 37.5	9,636 6,296 1,416, 38,6	9,985 6,460 1,437 36.3	10,339 6,340 1,462 36.2	39.425 24,932 5.732 148.6	9,792 6,090 1,435 37.5	10,202 6,515 1,425 38.7	40,957 25,845 5,770 148.9
Consumption, per capita * Red meat and poultry (lb.)	210.8	50.9	53.3	54.6	56.8	215.6	52.8	55,3	222.5
Corn beginning stocks (mil. bu.) 3/ Corn use (mil. bu.) 3/	1.930.4 8.113.4	1,344.5 2,338.1	6.940.3 2.151.6	4.789.0 1,798.3	2,992.0 1.472.6	1,344.5 7.760.6	1:520.9	=	7.725.0
Prices 4/ Choice steers—Neb. Direct (\$/cwt)* * Barrows & glite—7 mkts. (\$/cwt) Broilers—12-city (cts./lb.) EggsNY gr. A large (cts./doz.) Milk—all et plant (\$/cwt)	78.56 54.45 54.8 82.2 13 73	80.09 51.50 51.2 85.9 11. 6 0	77.92 53.34 52.2 70.2 11.37	69.42 50.85 54.2 77.1 12.30	70-74 38-42 48-50 75-79 13.60- 14.00	74-76 48-50 50-52 77-79 12 20- 12.30	72-78 40-46 48-52 72-76 12.40- 13.40	73-79 41-47 47-53 69-75 10.85-	73-79 39-45 46-52 72-78 11.90- 12.90
Wheat—KC HRW ordinary (\$/bu.) Corn—Chicago (\$/bu.) Soybeans—Chicago (\$/bu.) Cotton—Avg. spot 41-34 (cts./lb.)	3.44 2.51 5.93 71.3	2.81 2.45 5.70 75.4	3.00 2.51 5.73 81.0	3.11 2.47 5.65 66.7	-		-		-
	1983	1984	1985	1986	1987	1988	1989	1990	1991 F
Gross cash income (\$ bil.) Gross cash expenses (\$ bil.)	150.6 111.0	155.5 119.0	157.2 109.3	152.8 105.0	165,1 109.8	171.9 114.5	179.9 120.8	186.0 124.2	181-186 124-129
Net cash income (\$ bif.) Net farm income (\$ bif.)	39.5 15.3	36.6 26.3	47. 9 31.0	47.8 31,0	55.3 39.7	57.4 40.6	59.4 50.1	61.8 50.8	54-59 41-46
Farm real estate values 5/ Nominal (\$ per acre) Real (1982 \$)	788 788	801 771	713 662	640 577	599 526	632 538	661 54 5	668 529	682 519

1/ Quarterly data seasonally adjusted at annual rates. 2/ Annual data based on Oct.—Sept, fiscal years ending with year indicated. 3/ Sept.—Nov. is t quarter: Dec.—Feb. second quarter: Mar.—May third quarter: Jun.—Aug. fourth quarter: Sept.—Aug. annual. Use includes exports & domestic disappearance. 4/ Simple averages. Jan.—Dec. 5/ 1990—91 values as of January 1. 1986—89 values as of February 1. 1983—85 values as of April 1, F = forecast. — = not available.

^{*} The pork carcass to retail conversion factor has been revised. ** Omaha Choice steer price has been replaced by the Nebraska Direct, 1,100–1,300 lb. Choice steer price.

U.S. & Foreign Economic Data

Table 2.—U.S: Gross National Product & Related Data

		Annual		1	990		1991	
	1988	1989	1990	Ш	IV	I	- 11	III F
			\$ billion (qua	rterly data sea	sonally adjust	ed at annual r	ates)	
Gross national product	4,873.7	5.200.8	5,485.1	5.514.6	5,527.3	5.557.7	5.612.4	5,670.8
Personal consumption expenditures	3,238.2	3,450.1	3,657.3	3.693.4	3,724,9	3,742.8	3,789,0	3,841.8
Durable goods	457.5	474.6	480.3	482.3	488.5	455.3	453.7	467.4
Nondurable goods	1,060.0	1,130.0	1,193.7	1,205.0	1,216.0	1.212.7	1,221.7 218.4	1,229.8
Clothing & shoes	191.1 562.6	204. 6 595.3	213.2 624.7	215.8 629.8	211.5 629.4	213.3 636.7	642.8	221.8 644.8
Food & beverages Services	1,720.7	1,845.5	1,983.3	2,008.2	2,040.4	2,074.8	2,113.6	2,144.1
Gross private domestic	747.4	T 4.0	744.0	760.7	000.0	660.0	654.0	684.8
Investment Fixed Investment	747.1 720.8	771.2 742.9	741.0 746.1	759.7 750.7	698.3 729.2	694.1	694.0	702.
Change in business inventories	26.2	28.3	-5.0	0.0	-30.8	-34.2	-40.0	-17.
Net exports of goods & services	-74.1	-46.1	-31.2	-41.3	-28.8	13.5	18.1	-1.
Government purchases of goods & services	962.5	1.025.8	1,098.1	1.102.8	1,132.0	1,141.5	1,151.3	1,145.
			1982 \$ billior	ı (quarterly da	ta seasonally s	ıdjusted at anı	nual ratee)	
iross national product	4,018.9	4,117.7	4,157.3	4,170.0	4,153.4	4,124.1	4,119.9	4,143.
Personal consumption expenditures	2.606.5	2,656.8	2,681,8	2,696,8	2,673.8	2,663.7	2,680.5	2,705
Durable goods	418.2	428.0	427.4	429.5	415.8	402.9	401.4	410.
Nondurable goods	909.4	919.9	911.1	918.4	901.2 170.6	897.1 1 67 .0	902.2 171.1	908. 172.
Clothing & shoes Food & beverages	185.0 482.2	172.7 462.9	172.8 457.4	174.4 459.4	453.8	453.5	453.3	458.
Services	1,278.9	1.309.0	1,343.1	1,350.8	1,356.7	1,383.7	1.376.9	1.386.
to a milimia domantia invoctment	705.7	718.9	688.7	697.0	656.3	623.7	617.8	851.
iross private domestic investment Fixed investment	682,1	693.1	692.3	692.3	682.7	848.6	650.9	666
Change in business Inventories	23.6	23.8	-3.€	4.7	-26.4	-25.0	-33.3	-15.
Net exports of goods & services Government purchases of	-75. 9	-54.1	-33.8	-46.5	-8.8	7.1	-12.6	-32.
goods & services	78 0.5	798.1	820.8	822.7	832.3	829.6	833.4	819.
NP implicit price deflator (% change)	3.3	4.1	4.1	3.7	2.8	5.2	4.5	1. 4,107.
isposable personal income (\$ bil.) Isposable per, Income (1982 \$ bil.)	3,479.2 2,800.5	3,725.5 2,869.0	3,948.1 2,893.5	3.969.1 2.898.0	4,001. 9 2,872.4	4,021.3 2,881.9	4.068.1 2,877.9	2,892.
er capita disposable per, income (\$)	14,123	14,973	15,695	15,765	15,849	15,887	16,035	18,14
er capita die, per, income (1982 \$)	11,388	11,531	11,509	11,511	11.378	11,307	11,343	11,36
.S. population, total, Incl. military ibroad (mil.)	246.4	248.8	251.4	251.8	252.5	253.1	253.7	254.
ivilian population (mll.)	244.1	246.8	249.2	249.8	250.4	250.9	251.5	252.
		Annual		1990		1	991	
	1988	1989	1990	Sept	June	July	Aug	Sep
			N	ionthly data se	asonally adju	bete		
ndustrial production (1987=100)	105.4	108.1	109.2	110.6	107.9	108.0	108.0	108.
eading economic indicators (1982=190)	142.7	144.9	144.0	143 2	143.8	145.5	145.5	145.
ivillan employment (mil. persone)	115.0	117.3	117.9 5.4	117.9 5.7	116.9 7.0	118.7 8.8	116.4 6.8	117. 6.
ivilian unemployment rate (%) rereonal Income (\$ bil. annual rate)	5.4 4,070.8	5.2 4,384.3	4,645.5	4,697.8	4,811.0	4.802.6	4,823.8	4,846.
James work \$42 (dally ave \75 bit \ 14	3,069.9	3,223.1	3,328.2	3.321.8	3,402.1	3,391.8	3.392.8	3,392
/loney.stock=M2 (daily avg.) (\$ bit.) 1/ Three=month Treasury bill rate (%)	6.69	8.12	7.51	7.38	5.60	5.58	5.39	5.2
AA corporate bond yield (Moody's) (%)	9.71	9.26	9.32	9.56	9.01	9.00	8.75	9.6
lousing starts (1.000) 2/	1,488	1,378	1,193	1,106	1.034	1,049	1,056	1.03
uto sales at retail, total (mil.)	10.6	9.9	9.5	10.1	9.0	9.1	8.3	8.
Juginess Inventory/sales ratio	1.49 137.6	1.51 145.1	1.51 150.6	1.50 152.0	1.50 152.8	1.49 153.2	1.49 152.2	P 153
ales of all retail stores (\$ bit.) Nondurable goods stores (\$ bit.)	85.3	8.09	96.0	97.7	98.4	99.1	99.0	P 99.
Food stores (\$ bil.)	27.2	28.8	30.2	30.7	31.3	31.0	30.8	P 30.
Eating & drinking places (\$ bit.) Apparel & accessory stores (\$ bit.)	13. 9 7.1	14.5 7.8	15.2 7.9	15.2 7.9	16.0 8.1	15.8	18.0 8.2	P 15.
		Annual		1990		4	991	
								
	1988	1989	1990	Oct	July	Aug	Sept	Oc
Foreign exchange value of the dollar	100 0	120 4	1460	420.4	427.0	100 0	404.0	400
Japanese yen per U.S. dollar	128.2	138.1	145.0	129.6	137.8	136.8	134.3	130.4
German marks per U.S. dollar	1.757	1.881	1.817	1.524	1.785	1,744	1.693	1.87

^{1/} Annual data as of December of the year listed. 2/ Private, including larm. R = revised. P = prefiminary. — = not available.

Information contact: Ann Duncan (202) 219-0313.

Table 3.—Foreign Economic Growth, Inflation, & Export Earnings

							_					
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 F	1992 F	Aver age 1981 –90
					Annu	al percent	change					
World, less U.S.												
Real GDP	0.7	2.1	4.1	3.8	2.9	3.5	4.3	3.4	2.4	1.6	2.8	2.9
Consumer prices	14.7	14.1	12.2	12.3	9.6	12.1	18.8	36.3	41.1	44.5	30.1	18.5
Merch, exports	-7.7	-1.5	6.4	1.0	10.9	18.3	12.9	7.2	14.7	9.2	9.2	8.0
Developed less U.S.	4.6					0.0				- 15.		
Real GDP Consumer prices	1.0 8.4	2.1 6.4	3.7 4.9	3.5 4.2	2.8 2.5	3.2 2. 0	2.9	3. 6 4.3	3.3 4.8	2.0	3.1	2.9
Merch, exports	-4.4	-0.5	6.3	4.6	19.4	17.8	12.2	8.0	17.1	4.1 9.8	4.1 7.2	5.1 7.5
Daveloping	-4,4	~0.5	0.5	4.0	10.4	17.0	12.2	0.0	17.1	9.0	1.2	7.5
Real GDP	1.0	1.8	4,5	4.3	3.3	4.0	3.6	3.2	2.6	2.9	4.6	3.0
Consumer prices	30.1	39.7	35.8	36.0	27.5	36.1	57.7	77.7	108.8	40.9	26.4	47.8
Merch, exports	-12.9	-3.3	8.4	-5.3	-5.5	19.7	14.4	10.1	9.4	3.3	9.7	3.1
Aeia												
Real GDP	5.5	7.8	7.5	6.8	8.4	7.3	8.3	8.9	5.3	5.0	5.2	8.6
Consumer prices	6.0	6.4	6.9	7.8	5.5	7.3	11.4	9.8	8.1	9.1	9.2	7.8
Merch, exports	-0.5	4.6	14.6	-0.9	8.8	30.1	23.2	11.7	11.6	7.5	9.5	11.1
Latin America Real GDP	-1.6	-2.7	3.4	3.3	3,6	3.7	0.7	0.2	-1.0	1.0	3.3	0.9
Consumer prices	76.3	118.9	117.4	128.2	82.0	118.6	218.6	345.9	550.5	122.9	65.5	181.2
Merch, exports	-10.5	-1.5	10.2	-7.7	-17.9	13.6	14.1	12.2	9.2	2.0	9.4	2.8
Africa												
Real GDP	8.0	-1.4	8.0	4.5	2.3	1.3	6.6	3.6	1.9	2.0	2.9	1.9
Consumer prices	14.1	19.4	19.1	12.3	12.6	13.1	18.9	22.1	14.2	21.9	14.6	16.9
Merch, exports	-27.9	18.1	10.7	-13.5	-17.1	14.3	-2.7	3.5	19.7	-3.5	7.0	-1.5
Middle East	0.5	3.7	2.4	2.7	-2.8	0.3	0.9	3.2	-1.5		8.5	0.9
Real GDP Consumer prices	-2. 5 13.3	13.3	19.4	13.6	14.9	19.1	19.4	14.5	8.1	-3.3 13.7	13.9	15.1
Merch, exports	-22.0	-23.0	-10.9	-8.0	-20.5	13.0	2.1	19.0	13.3	-7.0	13.1	-4.2
Central Europe, & USSR		20.0	-10.0	0.0	2010	10.0		14.0	19.0	7.10	10.4	7.15
Real GDP	2.4	2.7	1.9	0.6	3.3	1.0	1.6	1.0	-7.1	-14.8	-2.4	8.0
Consumer prices	15.4	8.4	5.8	8.3	10.1	12.3	20.5	93.6	82.9	221.2	154.9	26.2
Merch, exports	8.1	3.8	1.0	-1.9	5.7	8.3	4.9	-0.9	-5.1	-8.7	3.1	2.7

F = forecast.

Information contact: Alberto Jerardo, (202) 219-0717.

Farm Prices

Table 4.—Indexes of Prices Received & Paid by Farmers, U.S. Average_

	Annual		1990			1	991			
	1988	1989	1990	Oct	May	June	July	Aug	Sept R	Oct
				197	7 = 100					
Prices received		4 4 79						4.47	440	
All farm Products	138 126	147 134	150 128	148 120	152 138	155 148	150 153	147 135	148 138	14 12
All crops Food grains	138	156	123	101	112	108	108	111	116	12
Feed grains & hay	120	128	123	114	122	115	113	117	118	- 11
Feed grains	117	123	118	108	117	113	112	115	118	- 11
Cotton	95	98	107	112	114	111	109	111	108	10
Tobacco	132	145	149	151	153	153	153	148	160	- 18
Oil-bearing crops	108	102	92	95	93	92	89	88	87	- 1
Fruit, all	185	192	192	181	235	398	364	365	389	2
Fresh market 1/	197	203	202	189	253	449	410	412	440	21
Commercial vegetables	140	152	154	158	214	172	133	121	127	1
Fresh market	136	144	144	152	224	163	120	108	114	- 1
Potatoes & dry beans	124	166	191	118	222	188	191	132	112	1-
Livestock & producte	150	160	170	170	165	163	162	158	157	1.
Meat animata	168	174	193	194	198	192	168	180	175	- 1
Dairy products	126	140	141	135	117	117	122	127	132	1
Poultry & eggs	118	137	131	133	119	120	127	125	124	1.
rices paid										
Commodities & services.										
interest, taxee. & Wage rates	170	178	184	187	_	_	189	_	_	14
Production Items	167	165	171	174	_	_	173	_	_	1
Feed	128	138	128	124	_	_	120	_	_	1:
Feeder livestock	192	194	213	219	_	_	214	_	_	2
Seed	150	165	165	163	_	_	163	_	_	3
Fortilizer	130	137	131	132	_	_	136	_	_	1
Agriculturel chemicals	127	139	139	141	_	_	153	-	_	1
Fuels & energy	187	180	204	239	_	_	196	_	_	2
Farm & motor supplies	145	150	154	158	_	-	157	_	_	1 2
Autos & trucks	215	223	231	233	_	_	248		_	2
Tractore & self-propelled machinery	181	193	202	208	_	_	210 227			2
Other mechinery	197 138	208 141	216	220		_	148	_	=	í
Building & fending	151	161	144 166	144 166		_	172			- 1
Farm services & cash rent		176		174		_	173		_	i i
nt, payable per acre on farm real estate debt	182 147	152	174 157	157	_	=	162	_	_	i
faxes payable per screign farm real estate. Vege rates (sessonelly adjusted)	177	165	191	185	_	=	202	-	_	ż
Production items, interest, taxes, & wage rates	160	187	172	174	_	=	174	-	_	1
atio, prices received to prices paid (%) 2/	81	83	82	76	80	82	79	78	78	
ices received (1910–14=100)	632	674	684	668	694	706	685	572	675	6
rices paid, etc. (parity index) (1910–14±100)	1.167	1,220	1,285	1,289	08-	,00	1,299		-	1.3
arity ratio (1910-14=100) (%)2/	54	55	54	62	_	_	53		-	110

^{1/} Fresh merket for noncitrus; fresh market & processing for citrus. 2/ Ratio of Index of prices received for all farm products to index of prices paid for commodaties & services. Interest, taxes, & wage rates. Ratio uses the most recent prices paid index. Prices paid data are quarterly & will be published in January, April, July, & October. R = revised. P = Preliminary. — = not available.

Table 5.—Prices Received by Farmers, U.S. Average

	Annual 1/		1990			1991				
	1988	1989	1990	Oct	May	June	July	Aug	Sept R	Oct P
CROPS All wheat (\$/bu.) Rice, rough (\$/cwt) Corn (\$/bu.) Sorghum (\$/cwt)	3.72	3.72	2.61	2.43	2.64	2.55	2.49	2.63	2.80	3.08
	6.83	7.35	6.73	5.00	7.42	7.40	7.28	7.09	7.61	7.27
	2. 54	2.36	2.30	2.19	2.38	2.31	2.27	2.33	2.34	2.29
	4.05	3.79	3.75	3.55	4.11	3.89	3.96	4.01	4.10	3.91
All hay, baled (\$/ton)	85.20	66.00	86.00	85. 6 0	84.20	71.60	70.60	71.50	68.10	68.80
Soybeans (\$/bu.)	7.42	5.70	5.75	5.87	5.67	5.55	5.36	5.66	5.64	5.33
Colton, upland (cts/lb.)	55.6	66,2	67.8	67.7	68.9	87.2	65.7	66.9	65.2	62.4
Potatoes (\$/cwt) Lettuca (\$/cwt) 2/ Tornatoes fresh (\$/cwt) 2/ Ontons (\$/cwt) Dry edible beans (\$/cwt)	8.02	7.38	8.15	4.73	9.70	8.18	8.05	5.52	4.62	4.37
	14.70	12.60	11.50	19.70	23.10	9.46	6.65	7.97	11.30	7.91
	27.10	33.10	27.40	31.50	54.40	56.40	29 10	22.50	21.90	18.30
	9.75	11.40	10.50	8.29	22.60	14.60	17.00	11.90	10.10	8 22
	29.90	28.50	18.50	17.60	20.00	17.80	21.40	15.80	14.40	14.60
Apples for fresh use (cts./b.) Pears for fresh use (\$/box) Oranges, all uses (\$/box) 3/ Grape/ruit, all uses (\$/box) 3/	17.4 358.00 7.18 5.43	13.9 336.00 7.08 4.45	20.9 349.00 5.99 6.21	19.3 335.00 5.31 6.62	22.5 431.00 7.95 4.91	24.2 754.00 21.35 5.44	24.8 19.48 4.82	24 6 399.00 20.81 2.86	29.1 477.00 21.97 1.38	24.9 411.00 11.09 6.24
LIVESTOCK Beef cattle (\$/cwt) Calves (\$/cwt) Hogs (\$/cwt) Lambs (\$/cwt)	66.80	69.67	74.79	75.50	75.90	73.60	71.80	68.80	68. 60	69.40
	89.85	91.84	96.51	92.80	107.00	106.00	103.00	98.30	96.10	93.90
	42.54	43.24	53.99	56.80	54.10	54.70	54.20	51,20	46.40	44.40
	69.50	67.33	58.01	51.90	67.6 0	65.30	57.70	53.40	53.60	51.30
All milk, sold to plants (\$/owt) Milk, manut, grade (\$/owt) Broilers (cts./lb.) Eggs (cts./doz.) 4/ Turksys (cts./lb.) Wool (cts./lb.) \$/	12.26	13.56	13.78	13.10	11.40	11.40	11.80	12.30	12.80	13.20
	11:15	12.38	12.33	11.10	10.20	10.40	10.80	11.40	12.10	12.40
	34.0	36.1	32.4	28.4	31.3	31.4	32.8	32.3	32.1	31.1
	53.2	70.0	70.4	73.0	59.5	59.3	65.0	63.8	63.0	63.8
	36.9	40.0	38.4	42.5	38.9	39.7	40.0	40.7	40.2	38.9
	138.0	124.0	76.8	74.0	67.4	71.8	56.4	53.0	53.9	66.6

^{1/} Season average price by crop year for crops. Calendar year average of monthly prices for livestock. 2/ Excludes Hawaii. 3/ Equivalent on-tree returns. 4/ Average of all eggs sold by producers including hatching eggs & eggs sold at retail. 5/ Average local market price, excluding incentive payments. R = revised. P = pretiminary. — not available.

Information contact: Ann Duncan (202) 219-0313.

Producer & Consumer Prices

Table 6.—Consumer Price Index for All Urban Consumers, U.S. Average (Not Seasonally Adjusted)

	Annual 1990 1991									
	1990	Sept	Feb	Mar	Apr	May	June	July	Aug	Sept
				1	982 - 84=10	0				
Consumer Price Index, all items Consumer Price Index, lass food	130.7 130.3	132.7 132.6	134.8 134.6	135.0 134.8	135.2 134.9	135.8 135.4	136.0 135. 7	136.2 136.1	136.6 136.7	137.2 137.4
All food	132.4	133.2	135.5	135.8	136.7	136.8	137.2	136.5	136.0	136.0
Food away from home	133.4	134.8	136.2	136.5	137.1	137.5	137.9	138.4	138.7	138.9
Food at home Meats 1/ Beef & veal Pork	132.3 128.5 128.8 129.8	132.9 131.0 129.5 135.4	135.7 132.8 132.6 135.1	136.0 133.1 132.9 135.2	137.0 132.7 133.4 133.3	136.9 133.4 134.1 134.2	137.4 133.5 133.2 136.1	135.0 133.1 132.6 136.7	134.9 132.9 132.3 135.7	134.9 131.9 131.0 134.1
Poultry Fish Egge Dairy products 2/ Fata & oils 3/ Fresh fruit	132.5 146.7 124.1 126.5 126.3 170.9	134.6 147.4 120.6 127.6 128.2 168.7	132.7 148.7 125.4 125.2 133.1 190.6	131.9 149.6 133.1 124.9 132.5 195.9	131.1 148.2 124.9 124.5 133.0 202.3	132.7 147.0 112.4 124.4 132.6 204.8	131.5 146.7 110.2 123.9 131.6 204.4	132.5 146.1 113.9 124.0 131.6 198.8	132.4 145.2 121.0 124.5 132.1 187.4	131.0 147.8 118.0 125.3 131.1
Processed fruit Fresh vegetables Potatoes Processed vegetables	136.9 151.1 162.6 127.5	139.9 137.3 152.0 128.8	133.2 152.5 140. 9 128.4	132.2 151.1 1 39. 6 128.2	132.3 169.2 144.4 128.4	132.1 167.3 149.1 126.7	131.2 180.5 165.8 130.0	130.6 1 67.7 1 64. 3 129.3	130.9 142.2 156.2 128.7	131.3 137.6 143.7 128.1
Cereal • & bakery products Sugar & sweets	140.0 124.7	141. 6 125.8	144.3 127.1	144.3 128.3	145.2 128.2	145.3 129.2	145.7 129.5	145.8 129.9	14 6 .5 130.3	146.5 129. 6
Beverages, nonalcoholic	113.5	114.2	116.3	114 9	115.5	114.9	113.9	113.1	112.9	112.6
Apparel Apparel, commodities less footwear Footwear Tobacco & smoking products Beverages, elcoholic	122.8 117.4 181.5 129.3	125.8 118.6 185.8 130.8	124.8 118.4 196.7 141.6	127.7 120.8 197.5 142.2	129.1 121.9 199.2 142.6	128.3 121.7 199.6 142.7	125.2 120.2 202.9 143.0	123.2 119.3 203.7 143.4	123.2 120.2 204.7 143.8	130.4 122.2 205.7 144.4

^{1/} Beef, veal, lamb, pork, & processed meat. 2/ Includes butter. 3/ Excludes butter.

Information contact: Ann Duncan (202) 219-0313.

Table 7.—Producer Price Indexes, U.S. Average (Not Seasonally Adjusted)

	Annual			1990			1	1991			
	1988	1989	1990	Sept	Apr	May A	June	July	Aug	Sept	
					1982 =	100					
Finished goods 1/	108.0	113.6	119.2	120.4	121.1	121.8	121.9	121.6	121.7	121.3	
Consumer foods	112.6	118.7	124.4	124.2	125.3	125.8	125.4	124.6	123.4	122.7	
Fresh fruit Fresh & dried vegetables Dried fruit & juice Frozen fruit & juice	113.5 105.5 99.1 120.2 129.8	113.2 116.7 103.0 122.7 123.9	118.1 118.1 106.7 127.0 139.0	117.6 94.3 106.3 128.6 139.9	131.9 119.7 111.4 126.8 112.8	134.8 148.7 111.4 127.2 112.7	137.9 135.7 111.3 126.8 112.7	145.0 107.4 111.8 128.5 112.7	134.2 91.4 110.9 128.6 109.5	132.9 87.7 111.5 129.6 108.9	
Fresh veg. excl. potatoes Canned veg. & Juices Frozen vegetables Potatoes Eggs Bakery products	100.4 108.3 108.6 113.9 88.6 126.4	103.9 118.6, 115.5 153.6 119.6 135.4	107.8 116.7 118.4 157.3 117.6 141.0	79.4 115.4 118.5 155.4 112.6 141.9	112.8 113.8 117.9 158.4 113.2 145.6	157.0 114.0 118.1 138.1 94.6 145.6	138.0 112.7 117.7 146.7 96.9 146.3	102.0 113.1 117.5 137.6 100.7 146.1	82.6 111.9 117.6 123.7 109.0 146.9	81.8 110.9 117.4 110.6 105.8 147.5	
Meats Beef & veal Pork Processed poultry Fish Dairy products Processed fruits & vegetables Shortening & cooking oil Soft drinks	99.9 101.4 95.0 111.6 148.7 102.2 113.8 118.8 114.3	104.8 108.9 97.7 120.4 142.9 110.6 119.9 116.6 177.7	117.0 116.0 119.8 113.6 147.2 117.2 124.7 123.2 122.3	117.2 114.1 121.0 116.7 140.0 119.0 124.9 127.3 121.7	117.4 118.4 115.7 109.0 155.6 111.5 119.2 120.8 127.2	117.8 117.3 118.4 112.2 157.3 111.5 119.3 110.6 125.1	117.4 114.9 120.6 111.8 146.4 112.0 118.8 115.0 128.5	116.1 111.6 121.8 113.3 146.6 113.6 119.2 111.6 125.8	111.2 104.8 117.0 113.5 139.5 115.1 118.4 117.4 125.1	108.1 104.5 107.9 112.8 142.0 115.9 118.2 114.9 124.6	
Consumer finished goods less foods	103.1	106.9	115.3	117.7	117.2	118.2	118.6	118.3	119.0	118.6	
Beverages, alcoholic Apparel Footwear Tobacco products	111.8 111.7 115.1 171.9	115.2 114.5 120.8 194.8	117.2 117.5 125.6 221.4	117.3 118.1 126.1 225.0	124.3 119.4 128.3 243 3	123.5 .119.3 128.7 243.4	123.3 119.5 128.6 249.1	123.9 119.8 128.7 254.3	123.4 120.0 129.4 254.9	123.3 120.0 129.4 254.7	
Intermediate materials 2/	107.1	112.0	114.5	118.3	113.9	114.0	114.3	114.0	114.3	114.5	
Materials for food manufacturing Flour Refined sugar 3/ Cruds vegetable oils	106.0 105.7 108.9 116.6	112.7 114.6 118.2 103.1	117.9 103.6 122.7 11 5. 8	118.6 94.8 123.1 124.1	116.1 95.5 122.0 111.3	115.5 96.3 121.3 102,5	115.3 95.7 121.0 101.8	116.5 93.1 121.4 95.9	115.4 96.3 121.3 101.3	114.5 98.2 121.4 100.9	
Crude materials 4/	96.0	103.1	106.9	115.3	100.8	102.1	99.5	99.4	99.2	98.0	
Foodstuffs & feedstuffs Fruits & vegetables 5/ Grains Livestock Poultry, live	108.1 108.5 97.9 103.3 121.5	111.2 114.6 106.4 106.1 128.8	113.1 117.5 97.4 115.6 118.8	110.8 104.0 88.3 113.3 128.9	109.0 124.4 94.1 115.8 107.3	108.7 141.9 92.7 115.2 113.9	107.4 138.0 90.2 112.8 112.7	104.9 123.4 84.3 110.2 119.2	102.5 109.7 93.2 100.7 120.4	102.9 107.0 92.4 101.1 116.7	
Fibers, plant & animal Fluid milk Oilseeds Tobacco, leaf Sugar, raw cane	98.4 89.4 134.0 87.2 111.9	107.8 98.8 123.8 93.8 115.5	117.8 100.8 112.1 95.8 119.2	116.6 104.6 120.1 98.9 119.3	134.0 82.9 109.7 99.6 113.1	139.2 83.4 107.5 99.6 112.8	130.8 84.8 108.7 99.6 113.3	120.2 86.6 99.3 99.6 112.6	106,7 90,3 104,2 98,3 114,0	103.5 93.3 107.0 102.8 114.4	
All commodities	106.9	112.2	118.3	118.4	116.0	116.5	116.3	116.0	116.2	116.0	
Industrial commodities	108.3	111.6	115.8	118.4	115.6	116.1	116.0	118.0	116.4	118.2	
All foods 6/	111.5	117.6	123.2	122.9	123.5	124.2	123.5	122.7	121.5	120.7	
Farm products & processed loads & feeds Farm products Processed loads & feeds &/ Cereal & bakery products Sugar & contectionery Beverages	110.0 104.9 112.7 123.0 114.7 114.3	115.4 110.9 117.8 131.1 120.1 118.4	118.6 112.2 121.9 134.2 123.1 120.8	117.9 109.2 122.4 133.7 123.9 120.8	118.1 109.6 122.5 137.0 128.3 125.6	118.3 110.4 122.3 137.4 127.8 124.3	117.7 108 9 122.1 137.8 128.4 124.7	11 6.3 105.2 121.8 137.1 130.3 123.8	115.3 102.6 121.6 138.1 130.0 123.1	115.0 102.8 121.1 138.6 130.6 123.1	

^{1/} Commodities ready for sale to ultimate consumer. 2/ Commodities requiring further processing to become finished goods. 3/ All types & sizes of refined sugar. 4/ Products entering market for the first time that have not been manufactured at that point. 5/ Fresh & dried. 6/ Includes all raw. intermediate, & processed foods (excludes soft drinks, alcoholic beverages, & manufactured animal feeds). A mirelysed.

Information contact: Ann Duncan (202) 219-0313.

Farm-Retail Price Spreads

Table 8.—Farm-Retail Price Spreads

	Annual			1990			1	1991		
	1988	1989	1990	Sept	Apr	May	June	July	Aug	Sept
Market basket 1/ Retail cost (1982-84=100)	116.5	124.6	133.5	134.1	138.5	138.4	139.2	137.7	136.8	138.6
Farm value (1982-84=100)	100.5	107.1	113.3	112.5	108.9	110.9	109.7	107.2	104.6	103.2
Farm-retail spread (1962-84=100) Farm value-retail cost (%)	125.1 30.2	134.1 30.1	144.4 29.7	145.9 29.4	154.3 27.5	153.1 28.1	155.0 27.6	154.1 27.3	154.1 26.8	154.5 20.5
Meat products										
Hetail cost (1982-84=100) Farm value (1982-84=100)	112.2 99.5	116.7 103.3	128.5 116.6	131.0 115.1	132.7 117.2	133.4 117.0	133.5 115.3	133.1 112.8	132.9 108.6	131.9 102.8
Farm-retail spread (1982-84=100)	125.2	130.4	140.6	147.3	148.8	150.2	152.2	153.9	157.8	161.7
Farm value-retail cost (%) Dairy products	44.9	44.8	46.0	44.5	44.7	44.4	43.7	42.9	41.4	39 5
Retail cost (1982-84=100)	109 4	115.6	126 5	127.6	124.5	124.4	123.9	124.0	124.5	125.3
Farm-retail spread (1982-84=100)	90.8 124.7	99.1 130.8	101.9 149.2	105.3 148.1	85.0 1 60 .9	84.9 160.8	85.9 159.0	87.8 157.4	90.5 155.8	91.4 150.6
Farm value-retail cost (%) Poultry	40.1	41.1	38.6	39.6	32.8	32.7	33.2	34.0	34.9	35.0
Hetail cost (1982-84=100)	120.7	132.7	132.5	134.6	131.1	132.7	131.5	132.5	132.4	131.0
Farm value (1982-84=100) Farm-retail spread (1982-84=100)	110.2 132.8	117.1 150.6	107.8 161.1	115.1 1 57. 1	100.1 166.7	103.7 166.1	104.3 162.8	107.7 181.0	107.2 161.4	106.5
Farm value-retail cost (%)	48.9	47.2	43.5	45.7	40.9	41.8	42.5	43.5	43.3	159.3 43.5
Eggs Retail coet (1982-84=100)	93.6	118.5	124.1	120.8	124.8	112.4	110.2	113.9	121.0	118.0
Farm value (1982-84=100)	76.7	107.5	108,0	105.9	96.6	85.4	85.2	98.8	95.4	93.7
Farm-retail spread (1982-84=199) Farm value-retail coet (%)	123.9 52.7	138.1 58.3	153.2 55.9	147.1 56.4	175.5 49.7	160.9 48.8	155.0 49.7	145.0 54.5	167.0 50.6	161.7 51.0
Cereal & bakery products										
Hetail cost (1982–84=100) Farm value (1982–84=100)	122.1 92.7	132.4 101.7	140.0 90.5	141.6 81.5	145.2 84.9	145.3 85.4	145.7 82.9	145.0 81.0	146.5 82.9	146.5 87.8
Farm-retail spread (1982-84=100)	126.2	136.7	146.9	150.0	153.6	153.7	154.5	154.8	155.4	154.7
Farm value-ratall cost (%) Fresh fruite	9.3	9.4	7.9	7.0	7.2	7.2	7.0	6.8	6.9	7.3
Retail cost (1982-84=100) Farm value (1982-84=100)	145.4 118.5	154. 7 108. 5	174.6 128.0	171.9 131.4	208.5 178.1	207.3 184.2	209.7 208 1	203.8 174.6	195.9 165.9	203.0 17 6 .2
Farm-retail spread (1982-84=100)	158.7	176.0	198.0	190.6	220.5	218.0	210.4	217.3	209.8	215.4
Farm value-retail cost (%) Fresh vegetables	25.3	22.2	23.2	24.1	26.9	28.1	31,3	27.1	28.7	27.4
Retail costs (1982-84=100)	129.3	143.1	151.1	137.3	189.2	167.3	180.5	157.7	142.2	137.6
Farm value (1982-84=100) Farm-retail spread (1982-84=100)	105.8 141.3	123.3 1 53.2	124.2 165.0	99.8 156.6	13t.3 188.7	181.8 170.1	134.2 204.3	119.2 177.5	93.0 187.5	94.8 159.6
Farm value-retail cost (%)	27.8	29.3	27.9	24.7	26.3	32.8	25.3	25.7	22.2	23.4
Processed fruits & vegetables Retail cost (1982–84=100)	117.6	125.0	132.7	135.0	130.5	130.5	130 5	129.9	129.8	129.8
Farm value (1982–84=100) Farm-retall spread (1982–84=100)	138. 6 111.7	133. 0 1 22 .3	147.2 128.1	152.9 129.4	125.0 132.2	125.0 132 .2	124. 0 132.3	123.6 131.9	123.4 131.8	122.4 132.1
Farm value-retail costs (%)	27.8	25.4	28.4	26.9	22.8	22.8	22.7	22.8	22.6	22.4
Fals & oils Retail cost (1982–84=100)	113.1	121.2	128.3	128 2	133.0	132.6	131.6	131 6	132.1	131.1
Farm value (1982-84=100)	103.0	95.€	107.1	111.0	105.8	100.0	98.4	93.8	96.2	96.9
Farm-retail spread (1982-84=100) Farm value-retail cost (%)	116.8 24.5	130. 6 21.2	133.4 22.8	134.2 23.5	143.0 21.4	144.8 20.3	144.6 19.7	145.5 19.2	145.3 19.6	143.7 19.9
	1988	Annual 1989	1990	1990 Oct	Mau	luna		991	- Cant	
Beef. Choice					May	June	July	Aug	Sept	Oct
Retail price 2/ (cts./tb.) Wholesale value 3/ (cts.)	250.3 169.4	265.7 176.8	281.0 189.6	282.7 192.2	296.1 190.9	292.4 186.1	288.4 178.8	285.4 172.2	280.1 170.8	277.2 174.5
Net farm value 4/ (cts.)	148.3	157.6	168.4	171.0	170.0	160.9	156.2	145.1	148.9	149.8
Farm-retail spread (cts.) Wholesale-retail 5/ (cts.)	102.0 80 9	108.1 88.9	112.6 91.4	111.7 90.5	126.1 105.2	131.5 106.3	132.2 109.6	140.3 113.2	133.3 109.3	127.4 102.7
Farm-wholesate & (cts.)	21.1	19.2	21.2	21,2	20.9	25.2	22.6	27.1	24.0	24.7
Farm value-retail price (%) Pork	59	59	90	60	57	55	54	51	52	54
Retail price 2/ (cts./lb.) Wholesale value 3/ (cts.)	183.4 101.0	182.9 99.2	212.6 118.3	223.2 124.4	213.3 115.5	214.6 116.0	217.7 115.7	214.2 111.5	211.9 107.1	207.7 104.6
Net farm value 4/ (cts.)	69.4	70.4	87.2	91.2	87.4	87.7	89.0	81.2	74.7	69.4
Farm-retail spread (cts.)	114.0	112.5	125.4	132.0	125.9	126.9	128.7	133.0	137.2	138.3
Wholesale=retail 5/ (cts.) Farm=wholesale 6/ (cts.)	82.4 31.6	83.7 28.8	94.3 31.1	98.8 33.2	97.8 26.1	98.6 28.3	102.0 26.7	102.7 30.3	104.8 32.4	103.1 35.2
Farm value-retail price (%)	38	38	41	41	41	41	41	38	35	33

1/ Petail costs are based on CPI-U of retail prices for domestically produced farm foods, published monthly by BLS. The farm value is the payment for the quantity of farm equivalent to the retail unit, less allowence for byproduct. Farm values are based on prices at first point of sale & may include marketing charges such as grading & packing for some commodities. The farm-retail spread, the difference between the retail price & the farm value, represents charges for assembling, processing, transporting, distributing. 2/ Weighted average price of retail cuts from pork & choice yield grade 3 beef. Prices from BLS. 3/ Value of wholesals (boxed beef, & wholesals cuts (pork) equivalent to 1 lb. of retail cuts adjusted for transportation sosts & byproduct values. 4/ Market value to producer for live animal equivalent to 1 lb. of retail cuts, minus value of byproducts. 5/ Charges for retailing & other marketing services such as wholesaling, and in-city transportation. 6/ Charges for livestock marketing, processing. & transportation.

Information contacts: Denis Dunham (202) 219-0870. Larry Duewer (202) 219-0712.

Table 9.—Price Indexes of Food Marketing Costs

		Annual		1990		1991			
	1988	1989	1990	It	IH	IV.	1	II	III P
					1967=100°				
Labor—hourly earnings	370.1	379.6	393 2	392.4	392.9	398.7	403.3	407.2	406.4
& benefits Processing	382.0	390.3	404.4	403.7	404.0	409.3	415.5	419.9	417.9
Wholesaling	394.1	409.1	422.0	420.2	423.9	427.2	433.6	437.7	436.1
Retailing	347.7	355.6	389.5	368.8	368.1	375.6	377.7	381.0	381.7
Packaging & containers	350.7	364.6	367.6	367.3	366.5	369.4 322.5	375.0 322.4	372.0 318.4	369.8 317.9
Paperboard boxes & Containers	308.1 442.3	323.7 443.2	323.9 455.0	324.1 458.3	322.3 456.3	458.3	322.4 468.1	469,2	471.7
Metal cans Paper bags & related products	372.2	409.2	413.0	408.9	410.2	421.3	423.1	419.5	411.4
Plastic films & bottles	305.7	313.2	307.1	306.9	303.9	309.2	318.0	311.6	306.8
Glass containers	398.9	409.9	427.3	428.0	428.9	429.8	445.4	445.B	446.2
Metal foil	266.9	274.4	258.4	257.6	261.4	264.7	263.0	257.5	245.0
Transportation services	403.5	404.9	411.3	410.5	408.2	415.7	420.7 453. 5	423.2 458.0	422.7 462.2
Advertising	384.7	409.1 619.4	433.0 671.4	429.6 615.0	435.1 668.0	441.7 750.1	679.5	636.8	656.8
Fuel & power Electric	578.2 453.3	468.9	477.7	470.3	496.0	480.1	490.6	505.3	530.6
Petroleum	502.0	592.1	744.8	582.6	713.4	989.8	739.1	599.5	626.4
Natural gas	1,042.1	1,070.9	1.071.0	1,059.0	1.056.6	1,076.2	1,089.8	1,056.0	1,051.5
Communications, water & sewage	241.3	247.3	253.1	253.0	253.0	255.0	258.4	260.4	263.5
Rent	272.6	277.1	273.0	274.6	274.9	270.3	271.6	269.2	263.8
Maintenance & repair	395.9	410.7	426.7	425.2	428.2	432.4	435.7	441.1	445.4
Business services	364.6	388.3	405.6	403.3	407.5	412.7	421.6	428.1	432.0
Supplies	305.6	321.4	321.1	318.9	320.1	326.6	325.5	319.5	314.6
Property taxes & insurance	419.9	439.7	462.2	456.5	468.3	471.4	474.0	477.4	482.4
Interest, short-term	150.3	172.1	155.5	160.3	153.2	150.3	129.1	118.5	114.1
Total marketing cost index	372.4	384.8	397.6	394.1	397.2	405.7	407.0	406.9	407.4

^{*} Indexes measure changes in employee earnings & benefits & in prices of supplies & services used in processing, wholesaling, & retailing U.S. farm foods purchased for at-home consumption. P = preliminary.

Information contact: Denie Dunham (202) 219-0870.

Livestock & Products

Table 10.—U.S. Meat Supply & Use

							Cons	umption	Drimani
	Beg. etocke	Produc- tion 1/	Imports	Total supply	Exports	Ending stocks	Total	Per capita 2/	Primary market price 3/
			MIII	ion pounds 4/				Pounds	
Beef 1989 1990 1991 F 1992 F	422 335 397 340	23,087 22,743 22,073 23,284	2,1 79 2,356 2,315 2,280	25,688 25,434 25,685 25,904	1,023 1,006 1,150 1,245	335 397 340 325	24.330 24.031 24,195 24.334	69.3 67.8 67.6 67.4	73.86 78.56 74-76 73-79
Pork 1989 1990 1991 F 1992 F	437 313 296 425	15,813 15,354 15,968 17,204	896 898 842 880	17,146 16,565 17,106 18,509	262 2 39 257 270	313 296 425 376	16,571 16,030 16,424 17,864	52.0 49.8 50. 5 54. 5	44.03 54.45 48-50 39-45
Veal 5/ 1989 1990 1991 F 1992 F	5 4 8	355 327 302 280	0 0 0	360 331 308 284	0	4 8 4 4	356 325 304 280	1.2 1.1 1.0 0.9	91.84 96.51 100-102 94-100
Lamb & mutton 1989 1990 1991 F 1992 F	8 8 7	347 363 361 368	63 59 60 60	416 430 429 435	2 3 3 2	8 8 7 9	406 419 419 424	1,5 1.5 1.5 1.5	87.32 55.54 52-54 49-55
Total red meat 1989 1990 1991 F 1992 F	870 680 707 776	39,602 38,787 39,604 41,136	3,138 3,313 3,217 3,220	43,810 42,760 43,528 45,132	1.287 1,248 1.410 1.517	660 707 776 713	41. 0 83 40,805 41,342 42,902	124.0 120.1 120.5 124.3	*
Brollers 1989 1990 1991 F 1992 F	36 38 26 40	17,424 16,660 19,877 20,658	0 0 0	17,460 18,698 19,903 20,698	814 1,143 1,150 1,180	38 28 40 35	16.608 17,529 18.713 19,483	67.1 70.1 74.1 76.6	59.0 54.8 50-52 48-52
Mature chicken 1989 1990 1991 F 1992 F	157 189 224 240	568 588 560 570	0 0 0	725 777 784 810	24 25 26 25	189 224 240 230	511 528 518 555	2.1 2.1 2.1 2.2	
Turkeys 1989 1990 1991 F 1992 F	250 236 306 300	4,2 85 4,734 4,857 4,982	0 0 0	4,535 4,970 5,163 5,282	41 54 80 80	238 308 300 250	4.259 4.810 4.783 4,952	17.2 18.4 18.9 19.5	66.7 63.2 69-61 66-62
Total poultry 1989 1990 1991 F 1992 F	442 483 557 580	22,278 23,982 25,294 26,210	0 0 0	22,720 24,445 25,851 26,790	878 1,222 1,256 1,285	483 557 580 515	21,378 22,668 24,014 24,990	86.4 90.7 95.1 98.2	=======================================
Red meat & poultry 1989 1990 1991 F 1992 F	1,312 1,123 1,264 1,356	61,880 62,769 64,696 67,346	3,138 3,313 3,217 3,220	66,330 67,205 69,379 71,922	2.165 2,470 2.666 2.802	1,123 1,264 1,356 1,228	63,042 63,471 65,356 67,892	210.4 210.8 215.6 222.5	=

^{1/} Total including farm production for red meats & federally inspected plus nonfederally inspected for poultry. 2/ Retail weight basis. (The beef carcass—to-retail conversion factor was 70.5) 3/ Dollars per cwt for red meat; cents per pound for poultry. Beef. Medium # 1, Nebraska Direct 1,100—1,300 lb.; pork: barrows & gifts. 7 markets: veal; farm price of caives; lamb & mutton; Choice slaughter lambs, San Angelo; brollers: wholesale 12—city average; turkeys; wholesale NY 8-16 lb. young hens. 4/ Carcass weight for red meats & certified ready—to—cook for poultry. 5/ Beginning 1989 veal trade no longer reported separately. F = forecast. — = not available.

Information contacts: Polly Cochran, or Maxine Dayls (202) 219-0767.

Table 11.—U.S. Egg Supply & Use _

		Pro-		Hatch-				Consur		
	Beg. stocks	duc- tion	lm-	Total supply	Ex- ports	Hatch- ing use	Ending stocks	Total	Per capita	Wholesale price*
			N	lillion dozen					No.	Cts./doz.
1987. 1988 1989 1990 1991 F 1992 F	10.4 14.4 15.2 10.7 11.8 12.0	5,868.2 5,784.2 6,597.8 5,659.9 6,731.9 5,770.0	6.6 6.3 25.2 9.1 2.2 2.4	5.884.2 5.803.9 5.638.2 5.679.6 5.745.8 5.784.4	111.2 141.8 91.6 100.5 139.8 137.0	599.1 605.9 642.9 675.8 706.4 740.0	14.4 15.2 10.7 11.6 12.0 12.0	5,159.5 5,041.0 4,893.0 4,891,7 4,887.6 4,895.4	254.9 246.8 237.3 234.8 232.3 230.9	61.6 62.1 81.9 82.2 77-79 72-78

^{*} Cartoned grade A large eggs. New York. F = forecast.

Information contact; Maxime Davie (202) 219-0767.

Table 12.—U.S. Milk Supply & Use

		Commercial		Total			Commercial		- Ali	CCC net removals		
	Produc-	Farm	Farm market- inge	Beg. stock	lm- ports	commer- ciai supply	CCC net re- movals	Ending stocks	Disap- pear- ance	mlik price 1/	Skim solida basis	Total solida basis 2/
				E	Billion pour	nde (milklet bas	sie)			\$/cwt	Billion	pounds
1984 1985 1986 1987 1988 1989 1990	135.4 143.0 143.1 142.7 145.2 144.2 148.3	2.9 2.5 2.4 2.3 2.2 2.1 2.0 2.0	132.4 140.6 140.7 140.5 142.9 142.2 146.3 148.6	5.1 4.8 4.5 4.1 4.8 4.3 4.1 5.1	2.7 2.8 2.7 2.5 2.5 2.7 2.5 2.7	140.2 148.2 147.9 147.1 149.0 149.0 153.1 154.2	8.7 13.3 10.8 6.8 9.1 9.4 9.0 9.9	4.8 4.5. 4.1 4.0 4.3 4.1 5.1 4.7	126.7 130.4 133.0 135.7 136.6 135.6 139.0	13.46 12.76 12.51 12.54 12.26 13.56 13.73 12.25	12.4 17.2 14.3 9.3 5.5 0.4 1.6 4.1	10.9 15.0 12.9 8.3 6.9 4.0 4.6 6.4

^{1/} Delivered to plants & dealers; does not reflect deductions. 2/ Arbitrarily weighted average of militat basis (40 percent) & skim solids basis (60 percent). F = forecast. Information contact: Jim Miller (202) 219-0770.

Table 13.—Poutry & Eggs_

Table To: Today a raggo				4						-
		Annual		1990				1991		
	1988	1989	1990	Sept	Apr	May	June	July	Aug.	Sept
Scollers Federally Inspected slaughter. certified (mil. lb.) Wholesale price.	16.124.4	17.334.2	18,553.9	1.421.4	1,892.0,	1,739.9	1,572.1	1.747.7	1,758.2	1,585.3
12-city (cts./lb.) Price of grower feed (\$/ton) Broller-(eed price ratio 1/ Stocks beginning of period (mil. fb.) Broller-type chicks hatched (mil.) 2/	56.3 219 3.1 24.8 5,602.4	59.0 237 3.0 35.9 5.946.9	54.8 219.3 3.0 39.3 6.314.0	57.4 219 3.1 25.9 510.0	52.0 2.09 2.9 30.5 654.0	52.0 209 3.0 32.8 583.4	52.7 209 3.0 36.3 566.7	54.3 204 3.2 41.9 561.4	\$4.6 202 3.2 44.4 558.5	53.6 201 3.2 40.1 532.8
Turkeys Federally inspected slaughter, certified (mil. lb.)	3.923.4	4,174,8	4,580.9	382.9	377.1	398.4	385.0	412.8	424.2	405.9
Wholesale price. Eastern U.S., 8-16 lb. young hene (cta./lb.) Price of turkey grower feed (\$/ton) Turkey-feed price ratio 1/ Stocks beginning of period (mill. lb.) Pouts placed in U.S. (mill.)	81.2 243 3.0 266.2 281.4	68.7 251 3.2 249.7 290.7	63 2 238.4 3.2 235.9 304.9	69.0 237.0 3.4 593.1 19.7	60.3 237 3.1 365.9 28.8	62.3 236 3.3 406.0 29.8	62.7 234 3.4 451.3 28.2	63.4 229 3.5 503.1 28.8	64.7 228 3.6 571.3 25.6	84.4 230 3.5 825.8 21.1
Eggs Farm production (mil.) Average number of layers (mil.)	69.4 10 277	67.174 269	67.919 270	5,534 268	5. 62 1 271	5,761 2 7 1	5,609 271	5,600 271	5,808 271	5,530 273
Rate of lay (egge per layer on farms)	251	250	251.7	20.7	20.7	21.3	20.7	21.5	21.4	20.6
Cartoned price, New York, grade A. large (cts./doz.) 3/ Price of laying feed (\$/ton) Egg-feed price ratio 1/	62.1 203 5.3	81.9 209 8.7	82.2 202 6.9	82.2 205 6.7	74.9 195 6.7	67.0 185 6.1	68.8 194 6.1	79.8 188 8.9	76.3 186 6.6	75.5 198 6.7
Stocks, first of month Shell (mll. doz.) Frozen (mll. doz.)	1.29 13.1	0.27 14.9	0.36 10.3	0, 57 13.0	0.42 10.7	0.36 9.8	0.46 10.3	0.39 10.8	0.39 13.7	0.30 12.4
Replacement chicke hatched (mll.)	366	383	399.0	31.2	39.5	38.9	35.5	34.7	33.3	33 9

^{1/} Pounds of feed equal in value to 1 dozen eggs or 1 lb, of broiler or turkey fiveweight. 2/ Placement of broiler chicks is currently reported for 15 States only; henceforth, hatch of broiler-type chicks will be used as a substitute. 3/ Price of cartoned eggs to volume buyers for delivery to retailers.

Information contact. Maxine Davis (202) 219-0767.

Table 14.—Dairy

		Annual		199)				1991		
	1988	1989	1990	Sep		Apr	May	June	July	Aug	Sept
Milk prices, Minnesota-Wisconsin 3,5% fat (\$/cwt) 1/	11.03	12.37	12.21	12.5)	10.04	10.23	10.58	10.99	11.50	12.02
Wholesale prices Butter, grade A Chi. (cts://b.)	132.5	127.9	102.1	98.1	9	97.3	97.3	98.1	98.9	98.9	100.7
Am. cheese, Wis. essembly pt. (cts./lb.) Nonfat dry milk (cts./lb.) 2/	123.B 79.7	138.8 105.5	136.7 100.8	142.1 92.6		111.7 85.4	115.0 86.1	121.4 88.9	128.4 92.2	136.1 92.2	139.7 93.9
USDA net removate Totel milk equly, (mil. lb.) 3/ Butter (mil. lb.) Am. cheese (mil. lb.) Nonfat dry milk (mil. lb.)	9,070.1 312.6 238.1 267.5	9,357.0 413.4 37.4 0	8.951.2 400.3 21.5 117.8	125.1 5.0 15.0	3	1,685.4 70.4 15.1 48.4	1,503.6 6/ 65.2 8.2 28.8	637.7 6/ 28.2 7.1 4.7	306.3 6V 14.3 -0.5 -0.5	70.8 6/ 3.3 0 -1.0	27.3 6/ 1.6 0.7 0.6
Milk Milk prod. 21 States (mil. ib) Milk per cow (ib.) Number of milk cows (1.000) U.S. milk production (mil. ib.)	123,518 14.291 8,643 145,152	122,509 14,369 8,526 144,239	125.714 14.768 8,513 148,284	9,97; 1,17; 8,510 7/ 11,73;	I 3	10,908 1,294 8,428 12.881	11,228 1,334 8,418 7/ 13,261	10,573 1,280 8,389 7/ 12,488	10,472 1,251 8,368 7/ 12,374	10,318 1,232 8,372 7/ 12,189	9,944 1,167 8,380 7/ 11,750
Stock, beginning Total (mil. lb.) Commercial (mil. lb.) Government (mil. lb.) Imports, total (mil. lb.) 3/	7.473 4.596 2.877 2.3 9 4	8,379 4,256 4,122 2,499	9,036 4,120 4,916 2,690	13.950 5,50 8,440 220	7 3	16,765 5,969 10,796 174	18,402 6,289 12,113 236	19.055 6,211 12.844 265	19,519 6,156 13,363 234	19,414 8,190 13,225 231	18,565 5,604 12,961
Commercial disappearance (mil. lb.)	136.574	135,439	138,947	11,934	l .	10,882	11,899	12.002	12,094	12.761	-
Butter Production (mil. lb.) Stocke, beginning (mil. lb.) Commercial disappearance (mil. lb.)	1.207.6 143.2 909.8	1,295.4 214.7 878.0	1,302.2 256.2 915.2	83.4 427.9 84.9	•	133.7 555.9 56.3	126.0 616.8 65.2	98.3 847 .5 78.0	88.9 665.6 69. 5	85.0 665.0 103.9	84.7 633.2
American cheese Production (mil. lb.) Stocke, beginning (mil. lb.) Commercial disappearance (mil. lb.)	2,756.6 370.4 2,570.0	2,674.1 293.0 2,683.1	2,890.8 236.2 2,781.0	214.8 381.0 225.6)	236.9 381.4 207.4	247.5 403.6 241.8	235.2 406.9 225.8	225.0 412.4 237.8	224.5 404.0 232.5	205.8 393.3
Other cheese Production (mil. ib.) Stocks, beginning (mil. ib.) Commercial disappearance (mil. ib.)	2.815.4 89.7 3,034.5	2.941.3 104.7 3,208.9	3,170.4 93.2 3,42 9 .8	257.8 117.0 286.0)	263.8 106.2 282.2	268. 5 106.9 296.5	270.2 103.8 291.0	264.9 107.7 288.4	269.2 108.7 301.2	270.7 102.0
Noniet dry milk Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	979.7 177.2 734.3	874.7 53.1 873.0	876.6 49.5 695.0	52.2 123.6 43.8	3	95.1 255.8 51.3	101.4 287.0 82.7	78. 6 328.8 80.9	69.8 342.8 68.0	56.8 349.7 59.0	44. 5 337.5
Frozen dessert Production (mil. gal.) 4/	1,248.0	1.214.0	1,162.9	91.6	3	103.5	114.7	124.9	126.4	118.1	98.4
		Annual					1990			1991	
	1988	1989	1990	I		II	RI	IV	1	IIΡ	III P
Milk production (mil. lb.) Milk per cow (lb.) No. of milk cows (1,000) Milk-feed price ratio 5/ Returns over concentrate 5/ costs (\$/owt milk)	145,152 14,145 10,262 1,58 8,99	144,239 14,244 10,126 1,65 10,18	- 148.284 14.642 10.127 1.72 10.39	36,740 3,827 10,128 1.83 11.13		38,626 3,820 10,111 1 69 10.00	36,632 3,620 10,119 1.74 10,50	36,285 3,575 10,151 1,57 9,03	37,470 3,708 10,104 1,49 8,30	38,630 3.855 10,020 1,47 8,10	36,313 3,642 9,970 1,59 9,00

1/ Manufacturing grade milk. 2/ Prices pald f.o.b. Central States production area. 3/ Milk equivalent, fat basis. 4/ Herd ice cream, ice milk, & hard sherbet. 5/ Based on average milk price after adjustment for price support deductions. 6/ includes estimates of butteroil exported through the Dairy Export Incentive Program (DEIP). 7/ Estimated. P = preliminary. — = not available.

Information Contact: LaVerne T. Williams (202) 219-0770.

Table 15.—Wool

Table 15.—Wool											
		Annual			1990			1991			
	1988	1989	1990	0	00	IV	ı	11	Ш		
U.S. wool price, (cts./lb.) 1/	438	370	256	272	238	227	197	200	217		
Imported wool price, (cts./lb.) 2/	372	354	267	312.	281	270	235	199	194		
U.S. mill consumption, scoured											
Apparel wool (1,000 lb.)	117,089	120.534	120.822	31,726	26.888	30,497	33,320	38,691	35,963		
Carpet wool (1,000 lb.)	15.833	14,122	12,124	2,950	3,125	2,138	3,088	3,119	4,644		

1/ Wool price delivered at U.S. mills, clean basis, Graded Territory 64's (20 60-22.04 microns) staple 2-3/4" & up. 2/ Wool price, Charleston, SC warehouse, clean basis, Australian 60/62's, type 64A (24 micron). Duty since 1982 has been 10.0 cents. — = not available.

Information contact: John Lawler (202) 219-0840.

Table 16.—Meat Animals

-		***								
		Annual		1990				991		
	1988	1989	1990	Oct	May	June	July	Aug	Sept	Oct
Cattle on feed (7 States) Number on feed (1,000 head) 1/ Placed on feed (1,000 head) Marketings (1,000 head) Other disappearance (1,000 head)	8.411 20,654 19,918 1,202	8.045 20,834 19,422 1,079	8.378 21.215 19,238 1,218	7.670 2.751 1,605 87	8,676 1,717 1,666 141	8.585 1.077 1,701 114	7,847 1,317 1,724 92	7,348 1,439 1,711 67	7,009 1,821 1,598 78	7,156
Beet steer-corn price ratio, Omaha 2/ Hog-corn price ratio, Omaha 2/	31.5 19.8	30.3 18.4	32. 8 23.1	36.5 27.0	32.7 22.9	32 0 23.6	31.3 24.2	28.5 21.8	28.8 19.9	29.9 16.9
Market prices (\$/cwt) Slaughter cartie Choice sters, Omsha 1,000-1,100 lb.	69.54	72.52	77.40	77.50	78,28	74.63	72.08	67.25	67.20	88.91
Choice steers, Neb. Direct. 1,100-1,300 lb. Boning utility cowe, Sloux Falls	71.19 47.21	73.86 48.98	78.56 53.60	79.33 50.58	78,29 53.40	74.39 54.19	72.15 52.41	67 .24 50 .08	88.07 49.77	69.79 47.83
Feeder cattle Medium no. 1, Oklahoma City 800-700 lb.	84.72	86.66	92.15	94.14	97.06	97.30	95.81	90.08	89.74	68.80
Slaughter hoge Barrows & gilts, 7-markets	43.39	44.03	54.45	67.16	54.47	54.55	55.22	50.78	48.53	43.16
Feeder pigs S. Mo. 40–50 lb. (per head)	36.06	33.63	51.48	62.33	52.98	42.78	40.96	36.53	38.22	33.75
Staughter sheep & lambs Lambs, Choice, San Angelo Ewes, Good, San Angelo	88.26 36.88	67.32 38.58	55.54 35.21	52. 50 32.00	57 .70 29. 90	65.76 33.38	55.50 34.63	54.31 31.06	53.25 29.63	151.20 28.80
Feeder lambs Choice, San Angelo	90.89	79.85	62.95	55.90	64.98	49.69	51.81	53.38	52.63	51.70
Wholestie meet prices, Midwest Boxed beef cut-out value Canner & cutter cow beef Pork loins, 14–18 lb. 3/ Pork bellies, 12–14 lb. Hams, skinned, 14–17 lb.	110.50 87.77 97.49 41.25 71.03	114.78 94.43 101.09 34.14 69.39	123.21 99.96 117.52 53.80 87.70	124.96 96.01 113.71 59.83 107.24	123.76 103.31 120.48 67.50 80.00	120,61 105,15 123,49 56,48 NO	115.82 101.89 121.73 50.40 85.00	111.54 101.23 117.54 42 01 85.00	110.61 99.69 105.86 38.97 85.00	113.04 96.16 100.87 32.26 87.25
All tresh beet retail price 4/	224.61	238.97	254.99	259.36	265.87	264.50	263.39	201.58	258.23	259.12
Commercial slaughter (1.000 head)* Cattle Steers Helfers Cows Buils & stags Calves Sheep & lambs Hogs	35,079 17,346 10,753 6,338 644 2,506 6,293 87,795	33,917 16,539 10,406 6,316 657 2,172 5,465 88,691	33,242 10,587 10,090 6,920 644 1,789 6,654 85,135	2,963 1,401 920 581 61 183 508 7,758	2,851 1.491 850 454 58 105 461 7,130	2.709 1.445 813 400 51 92 406 5.296	2.844 1.515 863 415 51 111 451 8,733	2,906 1,543 893 415 65 112 458 7,279	2.703 1.386 852 414 51 119 477 7.359	
Commercial production (mil. lb.) Beef Veal	23,424 387	22, 9 74 344	22,634 316	2.044 31	1.948	1.874	1,990	2.077 22	1,939 24 29	=
Lamb & mutton Pork	329 15.623	341 15,759	357 15,299	32 1,392	23 30 1,291	1,140	1,207	27 1.299	1,315	=
		Annual			1990			1	901	
	1988	1989	1990	П	III	1V	1	* 16	III	ΙV
Cattle on feed (1.3 States) Number on feed (1.000 head) 1/ Placed on feed (1.000 head) Marketings (1.000 head) Other disappearance (1,000 head)	10.114 24,423 23,459 1,390	9,688 24,469 22,940 1,274	9,943 . 24,948 22,581 1,393	10,063 5,086 5,988 400	8,761 6,333 5,741 261	9.092 7.488 5.254 347	10,977 5,592 5,338 462	10,869 4,890 5,869 464	9,426 5,364 5,968 282	8.540 8/ 5,155
Hogs & pigs (10 States) 5/ Inventory (1.000 head) 1/ Breeding (1.000 head) 1/ Barrowings (1.000 head) 1/ Parrowings (1.000 head) Pig crop (1.000 head)	42,875 5,435 37,240 9,370 72,268	43,210 5,335 37,875 9,203 71,807	42,200 5,275 36,925 8,955 70,549	40,190 5,245 34,945 2,458 19,576	42,630 5,405 37,225 2,236 17,684	44,120 5,300 38,820 2,238 17,459	42,900 5,257 37,643 2,129 16,770	41,990 6,450 36,540 2,577 20,555	44,470 5,700 38,770 2,441 19,260	46.950 5,886 41.265 8/ 2.433

Information Contact: Polly Cochren (202) 219-0767.

Crops & Products

Table 17.—Supply & Utilization^{1,2}

Tuble 17.	-oup,	Area			eri							
	Set anide 3/	Planted	Harves- ted	PlelY	Produc- tion	Total supply	Feed and reald- ual	Other domes- tic use	Ex- ports	Total use	Ending stocks	Farm price 5/
	=	Mil, acres		Bu/acre				Mil. bu.				\$/bu.
Wheat 1986/87 1987/88 1988/89 1989/90* 1990/91* 1991/92*	21.0 23.9 22.5 9.6 7.6 15.2	72.0 65.8 65.5 76.6 77.2 69.9	60.7 55.9 53.2 62.2 69.3 67. 7	34.4 37.7 34.1 32.7 39.5 34.3	2.091 2.108 1.612 2.037 2.736 1.981	4.017 3,945 3,096 2,782 3,309 2,886	401 280 148 139 489 350	796 808 829 853 866 897	999 1,598 1,419 1,233 1,068 1,125	2,196 2,684 2,394 2,225 2,444 2,372	1.821 1.261 702 538 866 514	2.42 2.57 3.72 3.72 2.61 2.75-2.95
Plos	A	dil. acres		Lb/scre			A	dil. cwt (rough e	quiv.)			Sicwt
Fice 1986/87 1987/88 1988/89 1989/90* 1990/91* 1991/92*	1.48 1.57 1.09 1.18 1.02 0.66	2.38 2.36 2.93 2.73 2.89 2.87	2,36 2,33 2,90 2,89 2,81 2,83	5,651 5,555 5,514 5,749 5,507 5,616	133,4 129,8 159,9 . 154,5 154,9 159,0	213,3 184,0 195,0 185,6 186,0 188,7	=	6/ 77.7 6/ 80.4 6/ 82.3 6/ 82.1 6/ 90.5 6/ 92.8	84.2 72.2 85.9 77.2 70.9 70.0	161.9 152.6 168.2 169.3 161.5 162.8	51.4 31.4 20.7 20.3 24.6 25.9	3.75 7.27 8.83 7.35 6.60–6.80 6.76–7.76
_	R	Ail, acres		Bu/acre				Mil. bu.				\$/bu.
Corn 1986/87 1987/88 1988/89 1988/90* 1990/91* 1991/92*	14.3 23.1 20.5 10.8 10.7 7.3	76.8 68.2 67.7 72.2 74.2 75.0	68.9 69.5 58.3 64.7 67.0 68.7	119.4 119.8 84.6 119.3 118.5 108.9	8,226 7,131 4,929 7,526 7,933 7,486	12,287 12,016 9,191 9,458 9,281 9,009	4.701 4.812 3,981 4,455 4,709 4.800	1,192 1,229 1,251 1,290 1,325 1,350	1,492 1,716 2,028 2,369 1,727 1,676	7.385 7.757 7.260 8.113 7.761 7.726	4,882 4,259 1,930 1,344 1,521 1,284	1.50 1.94 2.54 2.36 2.28 2.15-2.55
_	A	Ail. acres		Bu/acre				Mil. bu.				\$/bu.
Sorghum 1986/87 1987/88 1988/89 1989/90* 1990/91* 1991/92*	2,9 4,1 3,9 3,3 3,3 2,3	15.3 11.8 10.3 12.6 10.5 11.0	13.9 10.5 9.0 11.1 9.1 9.7	67.7 69.4 63.8 55.4 62.9 59.4	939 731 577 615 571 578	1,490 1,474 1,239 1,055 791 722	536 555 468 517 401 380	12 25 22 15 14 15	198 232 310 304 233 200	748 812 800 835 648 605	743 663 440 220 143 117	1.37 1.70 2.27 2.10 2.12 2.05– 2.45
Dordon.	A	Ail. acres		Bu/acre				Mil. bu.				\$/bu.
Bartey 1986/87 1987/88 1988/89 1989/90* 1990/91* 1991/92*	2.0 2.9 2.8 2.3 2.9 2.1	13.0 10.9 9.8 9.1 8.2 8.9	12.0 10.0 7.6 8.3 7.5 8.4	50.8 52.4 38.0 48.0 56.1 55.2	609 521 290 404 422 464	942 869 622 614 598 620	296 253 166 190 199 215	174 174 180 179 184 176	134 121 79 84 80 85	606 548 425 453 462 476	336 321 198 161 135 146	1.61 1.61 2.80 2.42 2.14 2.00–2.20
	l.	Ail. acres		Bu/acre				Mil. bu.				\$/bu.
Oate 1986/87 1987/88 1988/89 1989/90" 1990/91" 1991/92*	0.5 0.8 0.3 0.4 0.2 0.5	14.7 17.9 13.9 12.1 10.4 8.6	6.8 6.9 5.6 6.9 5.9 4.8	58.3 84.3 39.3 54.3 60.1 50.6	385 374 218 374 358 243	601 552 393 538 585 479	385 358 194 265 284 245	83 81 100 115 120 125	1 1 1 1 1	468 440 294 381 414 371	133 112 98 157 171 108	1.21 1 50 2.61 1.49 1.14 1.10–1.20
g., b.,		viil. acres		Bu/scre				Mil. bu.				\$/bu.
Soybeans 1986/87 1987/85 1988/89 1988/90" 1990/91* 1991/92"	0000	60.4 58.2 58.8 60.8 57.8 59.8	58.3 57.2 57.4 59.5 58.6 58.6	33.3 33.9 27.0 32.3 34.0 33.5	1,943 1,938 1,549 1,924 1,926 1,962	2,479 2,375 1,855 2,109 2,187 2,296	7/ 106 7/ 97 7/ 88 7/ 101 7/ 94 7/ 96	1,179 1,174 1,058 1,146 1,187 1,235	757 802 527 623 55 7 650	2,042 2,073 1,673 1,870 1,838 1,981	436 302 182 239 329 315	4.78 5.68 7.42 5.69 5.75 6.00-6.00
								Mill. lbs.				B/ Cle./lb.
Soybean oil 1988/87 1987/88 1988/89 1989/90* 1990/91* 1991/92*		=======================================	=======================================	=	12,783 12,974 11,737 13,004 13,408 13,874	13,745 14,895 13,967 14,741 14,728 16,650	=	10,833 10,930 10,591 12,083 12,237 12,300	1,187 1,873 1,661 1,353 725 1,660	12,920 12,803 12,252 13,436 12,962 13,350	1.725 2.092 1.715 1.305 1.766 2.300	15.40 22.67 21.10 22.30 21.00 17.0-29.0
Carlones mad								1.000 tone				9/ \$/ton
Soybean meai 1986/87 1987/88 1989/89 1989/90* 1990/91* 1991/92*	=======================================		=	=	27,758 28,060 24,943 27,719 28,325 29,285	27.970 28,300 25,100 27,900 28,663 29,675		20,387 21,293 19,657 22,558 23,178 23,275	7,343 6,854 5,270 5,024 5,200 6,000	27,730 28,147 24,927 27,582 28,378 29,275	240 153 173 316 285 300	163 222 233 174 170 165–185

See footnotes at end of table.

Table 17.—Supply & Utilization, continued

	uee porte use Stocks	Farm price
9.7 19.1 — 14.8 19.8 — 15.4 21.2 — 12.2 19.3 —	7.8 6.1 13.9 7.1	52.40 64.30 58.60 66.20
	14.8 19.8 — 15.4 21.2 —	9.7 19.1 — 7.5 8.7 14.1 6.0 14.8 19.8 — 7.6 6.6 14.2 5.8 15.4 21.2 — 7.8 6.1 13.9 7.1 12.2 19.3 — 8.8 7.7 16.5 3.0 15.5 18.5 — 8.7 7.8 16.4 2.3

*November 12, 1991 Supply & Demand Estimates. 1/ Marketing year beginning June 1 for wheat, barley. & cats, August 1 for cotton & rice, September 1 for solvbeans, corn, & sorghum, October 1 for solvbeans & corn, & sorghum, October 1 for solvbeans, 39,3979 bushels of corn or sorghum, 45,9296 bushels of barley, 68,89944 bushels of cats, 22,046 cwt of rice, & 4,59 480—pound bales of cotton. 3/ Includes diversion, PK, screage reduction, 50-92, & 0-92 programs. Data for 1991/92 are preliminary. 4/ Includes imports. 5/ Marketing-year weighted severage price received by farmers. Does not include an allowance for loans outstanding & Government purchases. 6/ Residual included in domestic use, 7/ Includes seed. 8/ Simple average of aroute solvbean oil, Decatur, 9/ Simple average of 44 percent, Decatur. 10/ Upland & extra long staple. Stocks estimates based on Census Bureau data, resulting in an unaccounted difference between supply & use estimates & changes in ending stocks. 11/ USDA is prohibited from publishing cotton price Projections.

— = not svaliable or not applicable.

Information contact: Commodity Economics Division, Grops Branch (202) 219-0840.

Table 18.—Cash Prices, Selected U.S. Commodities

		Mackette	ng year 1/		1990			1991		
			18 300: 11		1050			1891		
Wheat, No. 1 HRW,	1986/87	1987/88	1988/89	1989/90	Sept	May	June	July	Aug	Sept
Kansas City (\$/bu.) 2/ Wheat, DNS	2.72	2.96	4.17	4.22	2.83	3.04	2.99	2.91	3.10	3.31
Minneapolis (\$/bu.) 3/ Rice, S.W. La. (\$/cwt) 4/	3.07° 10.25	3.15 19.25	4.36 14.85	4.1 6 15.55	2.84 13.95	3.10 16.50	3.04 17.25	2.94 16.95	3.10 16.40	3.21 16.50
Corn. no. 2 yellow, 30 day, Chicago (\$/bu.) Sorghum, no. 2 yellow,	1.64	2.14	2.68	2.52	2.33	2.50	2.43	2.40	2.52	2.48
Kansas City (\$/cwt) Barley, feed,	2.73	3.40	4.17	4.24	98.E	4.13	4.02	4.05	4.22	4.24
Duluth (\$/bu.) 5/ Barley, malting.	1.44	1.78	2.32	2,20	2.01	2.13	2.02	t.89	1.92	2.08
Minnespolis (\$/bu,)	1.89	2.04	4.11	3.20	2.32	2.41	2.26	2.14	2,14	2.21
U.S. price, SLM, 1-1/16 in. (cts./lb.) 6/ Northern Europe prices	53.2	63.1	57.7	8.98	71.0	83.9	79.1	71.3	66.4	62.4
Index (cts./ib.) 7/ U.S. M 1-3/32 in. (cts./ib.) 8/	62.0 61.8	72.3 76.3	66.4 69.2	82.3 83.6	81.4 81.7	84.4 99.3	83.5	80.7	72.9 75.5	89.9 73.1
Soybean#, no. 1 yellow, 30 day. Chicago (\$/bu.) Soybean oil, crude,	5.03	6.67	7.41	5.86	6.19	5.71	5.65	5.39	5.65	5.90
Decatur (cts./lb.) Soybean meat, 44% protein.	15.40	22.70	21.10	22.30	24.50	20.20	19.70	19.10	20.20	20.50
Decatur (\$/ton)	162.70	221.90	233.00	173.75	176.90	171.00	171.10	109.70	177.60	191.90

1/ Beginning June 1 for wheat & barley: Aug. 1 for rice & cotton: Sept. 1 for corn, eorghum & eoybeans; Oct. 1 for soymeal & oil. 2/ Ordinary protein. 3/ 14% protein.
4/ Long grain, milled basis. 5/ Beginning Mar. 1987 reporting point changed from Minneapolis to Duluth. 6/ Average spot market. 7/ Liverpool Cotlook (A) Index; average of five lowest prices of 11 selected growths. 8/ Memphis territory growths. — a not available.

Information contact: Joy Harwood (202) 219-0840.

Table 19.—Farm Programs, Price Supports, Participation & Payment Rates

					Payment rates				
		Basic	Findley or announced		Paid land	1 diversion	Effective		Partici-
	Target price	loan rate	loan rate 1/	Deficiency	Mandatory	Optional	base acres 2/	Program 3/	pation rate 4/
W. F.				\$/bu.			MII. acrea	Percent of base	Percent of base
Wheat 1986/87 5/ 1987/88 1988/89 1989/90 1990/91 6/ 1991/92 1992/93	4.38 4.23 4.10 4.00 4.00 4.00	3.00 2.85 2.76 2.58 2.44 2.52 2.58	2.40 2.28 2.21 2.06 1.95 2.04 2.21	1.98 1.81 0.69 0.32 1.28 1.47	1.10	2.00	91.8 87.8 84.8 82.3 80.5 79.3	22.5/2.5/5-10 27.5/0/0 27.5/0/0 10/0/0 7/ 5/0/0 15/0/0 6/0/0	85 88 80 78 83 85
Rice				\$/owt					
1985/88 1986/87 5/ 1987/88 1988/89 1989/90 1990/91 6/ 1991/92	11.90 11.90 11.66 11.15 10.80 10.71	8.00 7.20 6.84 6.63 6.50 6.50 6.50	8/ 3.16 8/ 3.94 8/ 5.79 8/ 6.21 8/ 5.71 8/ 5.08	3.90 4.70 4.62 4.31 3.58 4.21 3.76	3.50-		4.2 4.2 4.2 4.2 4.2 4.2	20/15/0 35/0/0 35/0/0 25/0/0 26/0/0 5/0/0	90 94 96 94 95 94 95
Corn				\$/bu.					
1986/87 5/ 1987/88 1988/89 1989/90 1990/91 6/ 1991/92 1992/93	3.03 3.03 2.93 2.84 2.75 2.75 2.75	2.40 2.28 2.21 2.08 1.98 1.89 2.01	1.92 1.82 1.77 1.65 1.57 1.62 1.72	1.11 1.09 0.38 0.58 0.53 0.58	0.73 .	2.00	81.7 81.5 82.9 82.7 82.6 82.9	17.5/2.5/0 20/0/15 20/0/10 10/0/0 10/0/0 7.5/0/0 5/0/0	86 91 87 80 77 77
Sorghum				\$/bu.					
1988/87 6/ 1987/88 1988/89 1989/90 1990/91 6/ 1991/92 1992/93	2.88 2.88 2.78 2.70 2.61 2.61	2.28 2.17 2.10 1.96 1.86 1.80 1.91	1.82 1.74 1.68 1.67 1.49 1.54	1.08 1.14 0.48 0.66 0.58 0.58	0.65	1.90 1.65 —	19.0 17.4 18.8 18.2 15.4 13.5	9/ 17.5/2.5/0 20/0/15 20/0/10 10/0/0 10/0/0 7.5/0/0 5/0/0	74 85 82 71 70 77
Barley				_\$/bu.					
Barley 1986/87 5/ 1987/88 1988/89 1989/90 1990/91 6/ 1991/92 1992/93	2.60 2.60 2.51 2.43 2.36 2.36 2.36	1.95 1.80 1.80 1.68 1.60 1.54	1.56 1.49 1.44 1.34 1.28 1.32	0.99 0.79 0.00 0.00 0.22 0.47	0.57	1.60	12.4 12.5 12.4 12.3 11.9	9/ 17.5/2.5/0 20/0/15 20/0/10 10/0/0 10/0/0 7.5/0/0 5/0/0	72 85 79 87 68 76
Oate				\$/bu.					
1986/87 6/ 1987/88 1988/89 1988/90 1990/91 6/ 1991/92 1992/93	1.60 1.60 1.55 1.50 1.45 1.45	1,23 1,17 1,14 1,08 1,01 0,97 1,03	0.99 0.94 0.90 0.85 0.81 0.83 0.88	0.39 0.20 0.00 0.00 0.33 0.15	0.36	0.80	9.2 8.4 7.9 7.5 7.5 7.3	9/ 17.5/2.5/0 20/0/15 5/0/0 5/0/0 8/0/0 0/0/0 0/0/0	38 45 30 18 09 38
Soybeans 10/				\$/bu.					
1988/87 6/ 1987/88 1988/89 1989/90 1990/91 6/ 1991/92 1992/93			4.77 4.77 4.77 4.53 4.50 5.02 5.02			<u>y</u>		11/ 10/25 11/ 0/25 11/ 0/25 11/ 0/25	
Upland cotton 1986/87 5/ 1987/88 1998/89 1989/90 1990/91 6/ 1991/92 14/ 1992/93	81.0 79.4 75.9 73.4 72.9 72.9 72.9	55.00 52.25 51.80 50.00 50.27 50.77 62.35	12/ 44 00 13/ 60.00 13/ 51.89 13/ 65.05 13/ 53.00 13/	26.00 17.3 19.4 13.1 7.3 10.0			15.5 14.5 14.5 14.6 14.4 14.6	25/0/0 25/0/0 12.5/0/0 25/0/0 12.5/0/0 5/0/0 10/0/0	92 93 89 89 86 86

^{1/}There are no Findley loan rates for rice or cotton. See lootnotes 8/, 12/, and 13/. 2/ National effective crop acreage base as determined by ASCS. Not of CRP.
3/ Program requirements for participating producers (mandatory acreage reduction program/mandatory paid land diversion/optional paid land diversion). Acres idied must be devoted to a conserving use to receive program benefits. 4/ Percentage of effective base acres enrolled in acreage reduction programs. 5/ Payments and loans received in cash were reduced by 4.3 percent in 1986/87 due to Gramm-Fludman-Hollings. 8/ Payments and loans were reduced by 1.4 percent in 1986/87 due to Gramm-Fludman-Hollings. 8/ Payments and loans were reduced by 1.4 percent in 1996/91 due to Gramm-Fludman-Hollings. Budget Reconciliation Act reductions to deficiency payments and loans were reduced by 1.4 percent in 1996/91 due to Gramm-Fludman-Hollings. Budget Reconciliation Act reductions to deficiency payments are reduced by 1.4 percent of these reductions. 7/ Under 1990 modified contracts, participating producers plant up to 105 percent of their wheat base acres. For every ecre planted above 95 percent of base, the acreage used to compute deficiency payments was cut by 1 agre. 8/ Amarketing loan has been in affect for rice since 1985/86. Loans may be repeld at the lower of: a) the loan rate. Data refer to annual average adjusted world prices. 9/ The sorghum, oats, and beriey programs are the same as for comexcept as indicated. 10/ There are no target prices, base acres, acreage reduction programs, or deficiency payment rates for sorbeans. 11/ Nominal percentage of program crop base acrea permitted to shift into sorbeans without loss of base. 12/ A marketing loan has been in affect for cotton since 1986/87. The loan repayment rate was fixed at 80 percent of the loan rate in 1986/87 (Plan A), 13/ In 1987/88 and after, loans may be repaid at the lower of: a) the loan rate or b) the adjusted world market price (announced weekly; Plan B). Starting in 1991/92, loans cannol be repai

Table 20. - Fruit

	1982	1983	1984	1985	1986	1987	1988	1989	1990 P
Citrus 1/ Production (1,000 ton) Per capita consumpt. (lbs.) 2/ Noncitrus 3/	12,139 24.8	13,682 29.5	10.832 24.0	10.525 22.6	11,058 26.0	11,993 25.8	12.761 26.4	t3,186 25.4	11,324 22,4
Production (1,000 tons) Per capita consumpt (lbs.) 2/	14,658 62.8	14,168 63.6	14,301 67.7	14,191 66.7	13,874 69.8	18,011 75.4	15,893 72.7	16.321 74.3	15,572 69.8
			_		1991				
F.o.b. shipping point prices	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
Apples (\$/carton) 4/ Pears (\$/box) 5/	14.06 14.00	14.00 13.85	14.00 13.48	14.00 13.74	14.00 15.12	14.00 18.90	14.00	14.00	19.20 13.00
Grower prices Oranges (\$/box) 8/ Grapefruit (\$/box) 8/	6.62 5.68	5.98 4.50	7.41 5.43	7.3 7 5,10	7.95 4.91	21.35 5.44	19.48 4.82	20.81 2.86	21.97 1.38
Stocks, ending Fresh apples (mil. lbs.) Fresh pears (mil. lbs.) Frozen fruits (mil. lbs.) Frozen orange	2,694.8 191.1 760.7	2,100.7 145.4 679.6	1,569.8 95.0 635.2	1,060.9 50.8 566.7	690.7 14.7 549.8	385.8 590.6	163.0 12.8 762.6	17.7 137.5 833.2	2.694.1 460.0 825.6
juice (mil. ibs.)	1,195.8	1,199.5	1,236.7	1.363.2	1,304.7	1,110.6	967.7	876.9	770.8

^{1/ 1990} indicated 1989/90 season. 2/ Fresh per capita consumption. 3/ Calendar year. 4/ Red delicious, Washington, extra fancy, carton tray pack, 125's. '5/ D'Anjou, Washington, standard box wrapped, U.S. no. 1, 135's. 6/ U.S. equivalent on-tree returns. P = preliminary. — = not available.

Information contact: Wynnice Napper (202) 219-0884.

Table 21.—Vegetables

					Cale	ndar year				
Production	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total vegetables (1,000 cwt) Fresh (1,000 cwt) 1/3/ Processed (tone) 2/3/ Mushrooms (1,000 lbs.) 4/ Potatoes (1,000 cwt) Sweetpotatoes (1,000 cwt) Dry edible beans (1,000 cwt)	392,343 183,456 10,444,330 517,146 340,623 12,799 32,751	430,795 183,451 11,867,170 490,826 355,131 14,833 25,563	403,509 185,782 10,886,350 581,531 333,726 12,083 15,620	456,334 201,817 12,725,880 595,681 362,039 12,902 21,970	453.030 203.549 12.474.040 587.958 406.609 14,573 22.175	448.629 203.165 12.273.200 614.393 361.743 12.368 22.886	478,381 220,539 12,892,100 631,819 389,320 11,611 26,031	468,779 228,397 12,019,110 667,759 356,438 10,945 19,253	542,437 239,281 15,157,780 714,992 370,444 11,358 23,729	561,768 239,114 16,132,680 749,488 402,110 12,594 32,429
	1990					1991				
Chlomonte	Dec	Jan	¹ Feb	Mar	Apr	May	June	July	Aug	Sept
Shipmente Fresh (1,000 cwt) 5/ Potatoes (1,000 cwt) Sweetpotatoes (1,000 cwt)	17.112 10,434 545	23,352 14,681 399	19,405 11,322 400	19.215 12.337 486	20.661 14,497 283	30.842 15.695 291	28,747 10,395 188	29,105 10,720 151	17,211 8,796 93	15,711 9,541 220

^{1/} includes fresh production of asparague, broccoll, carrota, cauliflower, celery, sweet corn, lettuce, honeydews, onions, & tomatoes. 2/ includes processing production of snap beans, sweet corn, green peas, tomatoes, cucumbers (for pickles), esparague, broccoll, carrots, & cautiflower. 3/ Asparague & cucumber estimates were not svailable for 1982 & 1983. 4/ Fresh & processing sgartous mushrooms only. Excludes specially varieties. Crop year July 1 – June 30. 5/ includes ansp beans, broccoll, cabbage, carrots, cautiflower, celery, sweet corn, cucumbers, eggplant, lettuce, onlone, bell peppers, squash, tomatoes, cartaioupes, honeydews, & watermelons.

Information contacts: Gary Lucier or Cathy Greene (202) 219-0884.

Table 22.—Other Commodities _____

			Annual				1990			1991
Cuesa	1988	1987	1988	1989	1990	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June
Sugar Production 1/ Deliveries 1/ Stocks, ending 1/ Coffee	6,257 7,786 3,225	7,309 8,167 3,195	7,087 8,188 3,132	8,309 2,946	6.319 8,633 2,642	572 2.058 2,185	652 2,316 1,210	3,419 2,315 2,729	2,208 2,019 3,530	626 2,103 2,487
Composite green price N.Y. (cta./lb.)	185.18	109.14	115.59	95.17	76.93	78.55	79.10	76.85	74.94	72.13
Imports, green bean equiv. (mll. lbs.) 2/	2,596	2,638	2.072	2,630	2,714	702	530	616	748	563
		Annual				1990			1991	
Tobacco Prices at auctions 3/	1988	1989	1990	Mar	Dct	Nov	Dec	Jan	Feb	Mar
Flue-cured (\$/lb.) Burley (\$/lb.) Domestic consumption 4/	1.61 1.61	Ξ	1.71	=	1.72	1.65 1.75	1.75	1.78	177.0	=
Gigarettes (bil.) Large cigare (mil.)	562.5 2.531	540.1 2,467. 6	523.1 2.343.4	48.5 188.6	44.0 191.1	45.6 209. 6	34.1 1 57.9	3 4.5 152.1	39.4 144.9	47.1 162.5

^{1/1,000} short tons, raw value. Quarterly data shown at end of each quarter. 2/ Net Imports of green & processed coffee. 3/ Grop year July—June for flue—cured, Oct.-Sept. for burley. 4/ Taxable removals. — = not available.

Information contacts: sugar, Peter Buzzanell (202) 219-0886, coffee, Fred Gray (202) 219-0888, tobacco, Verner Grise (202) 219-0890.

World Agriculture

Table 23.—World Supply & Utilization of Major Crops, Livestock & Products

	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91 P	1991/92 F
	1000100			Million units	100000		,
Wheat Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	230.2	228.3	219.9	217.9	226.5	232.1	223.5
	501.0	531.1	502.4	501.3	537.9	593.3	547.4
	84.8	91.3	10 0 .1	97.2	96.1	93.5	104.4
	496.6	523.1	531.2	531.8	534.4	572.1	557.7
	169.7	177.6	148.8	118.3	121.7	142.0	132.8
Coarse grains Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	342.0	337.0	324.5	326.1	323.0	318.1	321, 6
	844.0	833.0	795.2	731.3	802.6	834.0	801.5
	83.2	83.7	82.5	94.2	100.0	84.8	83.2
	779.7	807.2	815.6	795.6	828.2	822.6	608.7
	208.2	234.0	213.6	149.3	123.9	135.3	128.1
Rice, milied Area (hectares) Production (metric tons) Exports (metric tons) 4/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	145.0	145.4	141.7	145.8	146.4	147.1	146.0
	319.1	319.0	314.5	331.0	344.5	352.2	345.6
	12.6	12.9	11.9	15.1	12.0	12.4	12.9
	319.7	323.0	320.2	328.7	337.9	347.6	346.5
	55.4	51.4	45.6	47.9	54.5	59.1	58.3
Total grains Area (hectares) Production (metric tons) Exports (metric tone) 1/ Consumption (metric tons) 2/ Ending stocks (metric tone) 3/	717.2	710.7	686.1	689.6	695.9	897.3	691.1
	1,864.1	1.683.1	1,612.1	1,563.6	1,685.0	1,779.5	1,694.5
	180.6	187.9	200.5	206.5	208.1	190.7	200.5
	1,596.0	1.653.3	1,667.0	1,656.1	1,700.5	1.742.3	1,712.9
	433.3	463.0	408.0	315.5	300.1	337.3	319.0
Oilseeds Crush (metric tons) Production (metric tons) Exports (metric tons) Ending stocks (metric tons)	155.1	161.8	168.5	166.4	173.2	178.6	180.5
	196.2	194.9	210.6	204.1	214.1	217.4	222.5
	34.5	37.7	39.5	32.0	35.9	34.0	35.7
	28.8	,23.3	24.0	22.2	23.3	22.0	23.2
Meals Production (metric tone) Exports (metric tons)	105.0	110.7	115.4	112.2	117.9	120.8	t22.3
	34.4	36.7	35.8	37.7	38.8	38.8	39.1
Oils Production (metric tons) Exports (metric tons)	49.4	50.4	53.3	53.9	57. 6	58. 6	0 0.3
	16.4	16.9	17.5	18.3	20.0	20.1	20.0
Cotton Area (hectares) Production (bales) Exports (bales) Consumption (bales) Ending stocks (bales)	31,7	29.5	31,0	33.7	31.8	33.1	34.2
	80.4	70.7	81.0	84.6	80.0	87.0	91.6
	20.3	26.0	23.2	25.9	24.0	23.4	23.9
	76.9	82.8	84.1	85.2	86.7	85.5	87.7
	48.5	35.9	32.9	32.1	26.4	27.9	31.4
	1985	1086	1987	1988	1989	1990 P	1991 F
Red meat Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	105.5	108.6	111.5	115.2	116.9	118.3	119.6
	103.4	107.4	109.7	113.4	115.2	116.8	118.1
	8.3	6.7	6.7	6.9	7.4	6.9	7.2
Poultry 5/ Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	26.2	29.3	31.3	32.9	34.2	35.7	37.3
	25.8	28.9	30.8	32.5	33.8	35.1	36.6
	1.2	1.2	1.5	1.7	1.8	2.1	2.2
Dalry, Milk production (metric tons)	413.4	425.9	425.9	429.1	435.0	440.9	442.0

^{1/} Excludes intra-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes. 3/ Stocks data are based on differing marketing years & do not represent levels at a given date. Data not available for all countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calendar year data. 1986 data correspond with 1985/86, etc. 5/ Poultry excludes the People's Republic of China before 1986.

P = preliminary. F = forecast.

Information contacts: Crops, Carol Whitton (202) 219-0824; red meat & poultry, Linda Bailey (202) 219-1285; dairy, Sara Short (202) 219-0770.

U.S. Agricultural Trade

Table 24.—Prices of Principal U.S. Agricultural Trade Products

		Annual		1990				1991		
and and	1988	1989	1990	Sept	Apr	May	June	July	Aug	Sept
Export commodities Wheat, f.o.b. vessel, Gulf ports (\$/bu.)	397	4.65	3.72	3.14	3.31	3.35	3.29	3.22	3.44	3.63
Corn, f.o.b. vessel, Gulf ports (\$/bu.)	2.73	2.85	2.79	2.60	2.91	2.70	2.66	2.69	2.81	2.77
Grain sorghum, I.o.b. vessel. Gull ports (\$/bu.)	2.52	2.70	2.65	2,52	2.79	2.62	2.51	0.50	0.00	0.74
Soybeans, f.o.b. vessel, Gulf ports (\$/bu.)	7.81	7.06	6.24	6.45	6.20	6.09	6.03	2.58 5.79	2.69 6.07	2.71 6.26
Soybean oil, Decatur (cts./lb.)	23.52	20.21	22.75	23.89	21.46	20.29	19.55	18.87	20.09	20.02
Soybean meal, Decatur (\$/ton)	234.75	216.59	169.37	175.79	171.32	171.14	171.43	169.70	181.32	192.23
Cotton, 8-market avg. spot (cts./lb.)	57.25	63.78	71.25	71.01	79.93	63.94	79.05	71.33	66.44	62.54
Tobacco, avg. price at auction (cts./lb.)	147.82	161.74	166.06	170.66	171.12	171.12	171.12	170.68	165.49	178.48
Rice, f.o.b. mill, Houston (\$/cwt)	19.60	15.68	15.52	14.50	18.00	16.00	17.00	17.00	17.00	17.00
Inedible tallow, Chicago (cts./lb.)	16.64	14.71	13.54	12.00	13.57	12.25	12.36	12.98	14.00	13.50
Import commodities										
Coffee, N Y, spot (\$/lb.)	1.21	1.04	0.61	0.67	0.80	0.78	0.71	0.68	0.66	0.68
Rubber, N.Y. spot (cts./lb.)	59.20	50.65	46.28	48.43	45.92	45.10	45.26	44.59	44.45	44.45
Cocoa beans, N.Y. (\$/lb.)	0.69	0.55	0.55	0.59	0.50	0.47	0.45	0.45	0.49	0.58

Information contact: Mary Teymourlan (202) 219-0824.

Table 25.—Indexes of Real Trade-Weighted Dollar Exchange Rates 1/

	1990					1991					
	Dec	Jan	Feb	Mar	Apr	May P	June P	July P	Aug P	Sept P	Oct P
					1985	5 = 100	-				
Total U.S. trade 2/	60.6	61.0	59.8	63.5	66.3	66.7	68.9	89.7	68.2	69.3	70.7
Agricultural trade U.S. markets U.S. competitors Wheat	75.3 73.5	75.5 74.9	74.6 73.9	76 5 75.2	78.0 78.3	78.2 78.6	79.4 77.3	80. 6 77.6	79.8 77.2	79/ 7 77.8	81.1 78.2
U.S. markets U.S. competitors Sovbeans	92.4 68.0	93.7 69.2	93.0 68.7	94 0 70.3	94.6 71.1	95.3 71.1	96.8 71.7	98.7 72.0	98.4 71.3	98. 5 71.7	99. 9 71. 9
U.S. markets U.S. competitors Corn	63.7 53.1	64.0. 59.0	62.8 57. 7	65.2 56.9	67.9 57.1	68.3 57.4	70.0 57.5	71.0 57.4	70.0 57 .3	70.1 57 .3	71.9 57 .3
U.S. markets U.S. competitors Cotton	69.9 57.1	69.9 61.3	68.6 60.7	70. 9 63.1	71.7 64.7	71.9 65.0	73.0 65.9	74.5 66.4	74.0 65.8	73.2 66.8	75.0 67.4
U.S. markete U.S. competitors	73.0 82.8	73.0 82.0	72.0 81.8	74.1 80.7	74.6 80.6	74.8 80.2	75.8 79.8	77.2 79.5	78.8 78.7	76.3 78.2	77.7 77.7

^{1/} Real indexee adjust nominal exchange rates for differences in rates of inflation, to avoid the distortion caused by high-inflation countries. A higher value means the dollar has appreciated. See the October 1988 issue of Agricultural Outlook for a discussion of the calculations and the weights used. 2/ Federal Reserve Board Index of trade-weighted value of the U.S. dollar against 10 major currencies. Weights are based on relative importance in world financial markets. P = Preliminary.

Information contact: Tim Baxter, David Stallings (202) 219-0716.

Table 26.—Trade Balance

					Fiscal year 1	/			Aug
	1984	1985	1986	1987	1988	1989	1990	1991 F	1991
Exports					\$ million				
Agricultural Nonagricultural	38.027 170,014	31.201 179,236	26.312 179,291	27,876 202,911	35,31 6 258,656	39,811 301,248	40,203 326,075	37,500	2,841 20 ,857
Total 2/	208.041	210,437	205.603	230,767	293,972	340,859	366,279	_	31,698
Agricultural Nonagricultural	18.916 297.738	19,740 313,722	20, 884 342,846	20,650 367,374	21,014 409,138	21.478 441,075	22,561 458,100	22,500	1,708 38,743
Total 3/ Trade balance	318.652	333,462	363,730	388.024	430,152	462.551	480,661	_	40,449
Agricultural Nonagricultural	19,111 -127,722	11. 46 1 -134,486	5,428 -163,555	7.228 -164,463	14,302 -150,482	18,135 -139.827	17.642 -132.024	15,000	1,135 -9,886
Total	-108,811	-123,025	-158,127	-157,237	-136.180	-121 . 09 2	-114,382	_	-8,751

^{1/} Fiscal years begin October 1 & end September 30. Fiscal year 1990 began Oct. 1, 1989 & ended Sept. 30, 1990. 2/ Domestic exports including Department of Defense shipments (F.A.S. value). 3/ Imports for consumption (customs value). F = forecast. — = not available.

Information contact: Stephen MacDonald (202) 2:19-0822.

Table 27.—U.S. Agricultural Exports & Imports

		Fiscal ye	ar*	Aug		Flecal y	ear*	Aug
	1989	1990	1991 F	1991	1989	1990	1991 F	1991
			1,000 unite				\$ million	
EXPORTS Animals, live (no.) 1/ Meals & preps., excl. poultry (mt) Dairy products (mt) 1/ Poultry meats (mt) Fats, oils, & greases (mt)	7 57 8 69 192 419 1,377	685 876 93 564 1,264	2/ 700 600 1,100	140 77 8 50	475 2.355 475 507 531	361 2,457 358 655 459	400	63 221 29 61 35
Hides & skins incl. furekins Cattle hides, whole (no.) 1/ Mink pelts (no.) 1/	26,260 3.073	24.777 5,128	Ξ	1,769 120	1,713 1,360 91	1,796 1,385 116	Ξ	104. 90 2
Grains & feeds (mt) Wheat (mt) Wheat flour (mt) Rice (mt) Feed grains. incl. products (mt) Feeds & fodders (mt) Other grain products (mt)	114,709 37,660 1,176 3,041 60,956 11,086 790	112.911 27,998 982 2,497 69,429 11,134 971	27,000 1,000 2,400 51,700 5/ 11,400	8,316 2,624 84 148 4,507 838 115	16.830 6.010 255 955 7.376 1.849 385	15,697 4.209 203 830 8.094 1,827 534	3/ 12.500 4/ 3,000 	1,000 287 16 52 503 141 62
Fruits, nuts, & preps. (mt)	2,555	2.873	-	223	2,394	2.789	_	255
Fruit Juices Incl. froz. (1,000 hectoliters) 1/ Vegetables & preps. (mt)	4.998 1,666	5.975 2.242	Ξ	461 147	265 1,542	328 2.079	Ξ	25 179
Tobecco, unmanufactured (mt) Cotton, excl. linters (mt) Seeds (mt) Sugar, cane or beet (mt)	209 1.441 485 368	218 1,666 564 447	1,800	13 40 44 67	1.249 2.040 499 134	1,359 2,704 574 187	1.500 3.000 600	84 69 34 23
Oilseeds & products (m1) Oilseeds (mt) Soybeans (mt) Protein meal (mt) Vegetable oils (mt) Essential oils (mt) Other	21.052 14.592 14.063 4.963 1.498 13	23.770 17,896 17,221 4,772 1,302 14 329	15.200	1.457 935 899 409 112 1	6,629 4,363 4,085 1,358 904 171 1,802	6,099 4,245 3,940 1,024 830 182 2,119	3.500	382 227 202 86 69 14 202
Total	145.878	147,831	129,000	10.547	39.611	40,203	37.500	2,841
IMPORTS								
Animals, sive (no.) 1/ Meats & preps., excl., poultry (mt) Beef & veal (mt) Pork (mt)	2.485 1,091 668 371	2,940 1,142 754 340	800 340	157 102 69 29	740 2.432 1,525 778	1.053 2,848 1,842 888	1,200 1,800 900	49 259 175 73
Dairy products (mt) 1/ Poultry & products 1/ Fats, oils, & greases (mt) Hides & skins, incl. furekins 1/ Wool, unmanufactured (mt)	211 14 62	254 19 47	=	$\frac{22}{\frac{4}{4}}$	834 130 14 241 319	951 129 15 182 187	800 — —	77 12 1 9 13
Grains & feeds (mt)	3,487	3,471	3.800	411	1,139	1,181	1.200	110
Fruits, nuts, & preps., excl. juices (mt) Bananas & plantains (mt) Fruit juices (1,000 hectoliters) 1/	5,035 3,039 27,747	5,331 3,236 33,922	5.345 3,275 30,000	403 302 1,933	2.269 851 792	2,486 926 1,001	1,000	193 88 52
Vegetables & preps. (mt) Tobacco, unmanufactured (mt) Cotton, unmanufactured (mt) Seeds (mt) Nursery stock & cut flowers 1/ Sugar, cane or beet (mt)	2.217 171 13 158 1.657	2,242 193 30 171 — 1,769	220 165	31 19 2 7 120	1.959 521 8 187 466 620	2.264 588 20 164 519 734	2,100 600 200	138 57 2 12 48 48
Oilseed® & products (mt) Oilseed® (mt) Profein meal (mt) Vegetable gil® (mt)	1,917 424 359 1,133	2,034 534 310 1,189	=	134 26 43 65	946 159 65 721	964 206 48 710	1,000	72 9 6 57
Beverages excl. fruit juices (1.000 hectoliters) 1/	13.967	13,543	_	1.235	1,815	1.867		158
Coffee, tea. cocoa. spices Coffee, Incl. products (mt) Cocoa beans & products (mt)	1.867 1.084 564	2,201 1,290 698	3,150 1,150 650	161 83 58	3,896 2,467 969	3,465 1,997 1,042	1.900 1,000	236 123 79
Rubber & atlied gums (mt) Other	927	840	820	54	1,051 1,097	712 1.231	700	44 118
_Total				_	21,476	22,561	22.500	1,708

^{*}Fiscal years begin Oct. 1 & end Sept. 30. Fiscal year 1991 began Oct. 1, 1990 & ended Sept. 30, 1991. 1/ Not included in total volume and also other dairy products for 1989 & 1990. 2/ Forecasts for footnoted items 2/-6/ are based on slightly different groups of commodities. Fiscal 1990 exports of categories used in the 1991 forecasts were 2/ 676,000 m. tons. 3/ 16,014 million. 4/ 4,426 million it.e. includes flour. 5/ 11,065 million m. tons. F = forecast. — = not available.

Information contact: Stephen MacDonald (202) 219-0822.

Table 28.—U.S. Agricultural Exports by Region

		Fiscal year	. de	Aug	Chan	g e from year	* oarlier	Aug
Region & country	1989	1990	1991 F	1991	1989	1990	1991 F	1991
		\$	million			P	ercent	
WESTERN EUROPE European Community (EC-12) Belglum-Luxembourg France Germany, Fed. Rep. Italy	7,049 6,539 431 474 918 609	7,318 6,825 431 469 1,096 704	7,100 6,600 — — —	429 384 32 31 82 19	-12 -13 0 -16 -28 -15	4 0 -1 19 16	-33 3 	5 3 47 9 83 -49
Netherlands United Kingdom Portugal Spain, Incl. Canary Islands	1,847 736 30 7 8 5 0	1,637 761 338 976	=	78 73 11 28	-12 -10 -30 0	·-11 3 10 15	=	-29 49 -50 -7
Other Western Europe Switzerland	510 166	493 171	500	45 9	-2 -14	-3 3	0	18 -1 6
EASTERN EUROPE German Dem. Rep. Poland Yugoslavia Romania	422 72 45 78 62	557 58 101 129 234	300	24 0 2 1	-25 7 -73 -27 -33	32 -20 124 69 277	-40 	-35 0 -82 -94 -17
USSA	3,299	3,000	1,900	170	70	-9	-37	1,474
ASIA West Asia (Mideast) Turkey Iraq Israel, incl. Gaza & W. Bank Saudi Arabla	18,674 2,273 238 791 331 482	18,131 1,996 260 497 285 502	16,500 1,800 0 600	1,294 90 6 0 11 45	17 19 98 8 -1	-3 -12 9 -37 -14	-10 -100 -100 -20	-20 -39 38 0 -68 -33
South Asia Bangladesh India Pakistan China Japan	1,161 213 243 599 1,496 8,148	729 125 115 391 909 8,106	100 700 7,800	39 8 4 20 43 588	44 99 -31 117 144 12	-37 -41 -53 -35 -39 -1	-75 -22 -4	-48 -63 -63 -49 -55 -7
Southeast Asia Indonesia Philippines	976 216 344	1,184 277 351	400	84 14 32	-4 -9 0	21 28 2		-7 -45 14
Other East Asia Taiwan Korea, Rep. Hong Kong	4,620 1,594 2,453 572	5,207 1,818 2,703 685	4,700 1,700 2,200 800	360 156 152 52	7 1 9 17	13 14 10 19	-10 -6 -19 14	-22 12 -39 -28
AFRICA North Africa Morocco Algeria Egypt Sub-Sahara Nigeria Rep. S. Africa	2.280 1.796 216 549 955 483 30	2.009 1.524 188 488 761 484 32 81	1,700 1,300 400 600 400	164 116 8 35 68 48 4	0 8 12 2 22 -21 -32 -33	-12 -15 -23 -11 -20 0 7	-15 -13 -20 -25 0	30 41 -12 31 77 11 284 158
LATIN AMERICA & CARIBBEAN Brazil Caribbean Islands Central America Colombia Mexico Peru Vanezuela	5,440 149 1,007 448 139 2,757 81 587	5,157 105 1,007 465 147 2,666 187 345	5,400 300 2,800 400	479 44 82 56 15 227 10 23	24 -15 16 8 -22 60 -53 -2	-5 -30 0 4 6 -3 132 -41	200	0; 394 -3 13 11 -2 -13 -53
CANADA	2,179	3,715	4,300	347	10	70	18	0
OCEANIA	268	317	300	24	13'	า์ชี	0	-19
TOTAL	39,611	40,203	37,500	2,841	12	1,	-8	-3
Developed countries	17,971	19,768	19,800	1,403	1	fo;	0	-4
Less developed countries	16,422	15,971	14,800	1.201	14	-3	-7	-11
Centrally planned countries	5.217	4,486	2,900	238	68	-14	-34	64

^{*}Fiscal years begin Oct 1 & end Sept. 30. Fiscal year 1991 began Oct. 1, 1990 & ended Sept. 30, 1991. F = forecast. — = not available. Note: Adjusted for transshipments through Canada.

"Information contact: Stephen MacDonald (202) 219-0822

Farm Income

Table 29.—Farm Income Statistics

						Calendar y	130				
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 F
					3	billion					
1. Farm receipts Crops (incl. net CCC loans) Livestock Farm related 1/	144.1	147.2	141.3	147.1	149.4	140.2	148.3	157.3	168.6	175.8	172 to 178
	72.5	72.3	67.2	69.9	74.3	63.7	65.8	71.6	76.8	80.4	79 to 83
	89.2	70.3	69.6	72.9	89.8	71.6	76.0	79.4	84.1	89.6	85 to 89
	2.5	4.6	4.5	4.3	5.3	5.7	6.6	6.3	8.1	6.7	6 to 8
Direct Government payments Cash payments Value of PIK commodities	1.9	3.5	9.3	8.4	7.7	11.8	16.7	14.5	10.9	9.3	8 to 9
	1.9	3.5	4.1	4.0	7.6	8.1	6.6	7.1	9.1	6.4	7 to 8
	0.0	0.0	5.2	4.5	0.1	3.7	10.1	7.4	1.7	0.9	0 to 1
3. Total gross farm income (4+5+6) 2/ 4. Gross cash income (1+2) 5. Nonmoney income 3/ 6. Value of inventory change	166.3	163.5	153.2	170.2	182.9	158.1	168.4	174.5	190.3	195.1	188 to 193
	146.0	150.6	150.6	155.5	157.2	152.8	165.1	171.9	179.9	185.0	181 to 186
	13.8	14.3	13.5	8.7	6.0	5.5	5.8	6.1	6.1	6.3	6 10 7
	8.5	-1.4	-10.9	6.0	-2.3	-2.2	-2.3	-3.5	4.3	2.9	9 to 3
7. Cash expenses 4/	113.2	112.8	111.0	119.0	109.3	105.0	109.8	114.5	120.6	124.2	124 to 129
8. Total expenses	139.4	140.0	13 7.9	143.8	131.9	125.1	128.7	133.9	140.2	144.3	145 to 149
Net cash income (4-7) Net farm income (3-8) Deflated (1982\$)	32.8	37.9	39.5	36.6	47.9	47.8	65.3	67.4	59.4	61.8	54 to 59
	26.9	23.5	15.3	26.3	31.0	31.0	39.7	40.6	50.1	50.8	41 to 46
	28.6	23.5	14.7	24.5	27.9	27.3	33.8	33.6	39.6	38.7	31 to 34
11. Off-farm income	35.8	36.4	37.0	39.2	55.2	54.5	56.3	57.2	57.3	67.0	
12. Loan changes 5/: Real estate 13. 5/: Non-real estate	9.0 6.5	3. 8 3. 4	2.3 0.9	-2.0 -0.8	-6.4 -9.6	-8.7 -11.0	-8.0 -4.6	-4.8 -0.3	-2.3 0.1	-1 0 1.3	=
14. Rental Income plus monetary change	6.4	6.4	5.4	9.2	9.1	8.0	7.7	7.8	6.9	11. 5	=
15. Capital expenditures 5/	16.6	13.3	12.7	12.5	9.2	8.5	11.2	11.3	12.6	13.4	
16. Net cash flow (9+12+13+14-15)	37 8	36.2	35.3	30.4	31.0	26.6	39.3	49.1	53.2	58.4	-

^{1/} Income from machine hire, custom work, sales of forest products, & other miscellaneous cash sources. 2/ Numbers in parenthases indicate the combination of items fequired to calculate a given item. 3/ Value of home consumption of self-produced food & imputed gross rental value of farm dwellings. 4/ Excludes capital consumption, perquisites to hired labor, & farm household expenses. 5/ Excludes farm households. Total may not add because of rounding. F = forecast. — = not evailable.

Information contact: Robert McElroy (202) 219-0800.

Table 30.—Balance Sheet of the U.S. Farming Sector_

					Calenda	ar year 1/					
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991 F
						\$ billion					
Assets Real estate Non-real estate Livestock & poultry	785. 6 196.8 53.5	750.0 195.6 53.0	753.4 191.9 49.5	661.7 196.9 49.5	586.1 187.4 46.3	542.2 182.3 47.6	578.6 194.2 58.0	599.4 205.8 62.2	605.1 214.7 66.2	614.4 220.9 69.1	620 to 630 220 to 230 68 to 72
Machinery & motor vehicles Crops stored 2/ Purchased inputs Financial assets Total farm essets	85.5 30.0 28.2 982.8	86.0 26.4 29.7 945.1	85.6 24.4 — 30.9 944.0	85.0 26.3 2.0 32.6 857.1	82.9 22.9 1.2 33.3 772.6	81.5 16.6 2.1 34.5 724.6	80.0 17.8 3.0 35.1 772.5	82.0 22.7 3.3 35.4 805.1	85.8 23.3 2.7 36.6 819.7	87.4 22.4 2.8 38.5 834.6	87 to 91 21 to 24 2 to 4 38 to 42 845 to 855
Liabilities Real estate debt 3/ Non-real estate debt 4/ Total farm debt Total farm equity	98.8 83.6 182.4 800.4	101.8 87.0 188.8 756.3	103.2 67.9 191.1 752.9	106.7 87.1 193.6 663.3	100.1 77.5 177.6 595.0	90.4 66.6 157.0 567.6	82.4 62.0 144.4 626.1	77.6 61.7 139.4 665.6	75.3 61.8 137.1 682.6	73.4 63.1 136.5 698.2	72 to 78 62 to 66 135 to 141 705 to 715
						Percent	_				
Selected ratios Debt-to-assets Debt-to-equity Debt-to-net cash Income	18.6 22.6 556	20.0 25.0 496	20.2 25.4 498	22.6 29.2 518	23.0 29.8 377	21.7 27.7 328	18.7 23.0 261	17.3 20.9 243	16.7 20.1 231	16.3 19.6 221	16 to 17 19 to 20 240 to 250

^{1/} As of Dec. 31, 2/ Non-CCC crops held on farms plus value above loan rates for crops held under CCC, 3/ Excludes debt on operator dwellings, but includes CCC storage and drying facilities loans, 4/ Excludes debt for nonfarm purposes. F = forecast.

Information contacts: Ken Erickson or Jlm Ryan (202) 219-0796.

Table 31.—Cash Receipts From Farm Marketings, by State

Doning 8		Livestock	& products			(Crops 1/				Total 1/	
Region & State	1989	1990	July 1991	Аца 1 99 1	1989	1990	July 1991	Aug 1991	1989	1990	July 1991	Aug 1991
						\$ m	Illion 2/					
NORTH ATLANTIC Maine New Hampshire Vermont Massachusetts	216 65 379 113	220 63 398 110	17 5 29	17 5 30 10	228 73 50 321	240 71 49 303	13 5 7 20	21 8 2 30	444 139 429 434	480 134 447 416	30 10 36 30	39 13 32 40
Rhode Island Connecticut New York New Jersey Pennsylvania	13 186 1.937 197 2,611	13 198 1.983 196 2,714	1 16 141 17 192	1 16 147 17 206	65 240 917 464 992	58 250 1.023 452 1,053	3 16 83 58 66	2 15 127 52 90	78 426 2,854 662 3,602	71 446 3,006 647 3.767	31 224 75 258	3 31 274 68 296
NORTH CENTRAL Ohio Indiana Illinois Michigan	1,898 1,826 2,251 1,311	1,836 2,060 2,477 1,398	128 155 191 101	141 174 185 104	2,088 2,456 4,727 1,611	2,335 2,871 5,4 6 1 1,785	217 215 295 115	153 170 259 138	3,787 4,281 6,979 2,923	4,172 4,931 7,938 3,183	345 370 486 216	294 343 444 242
Wisconstri Minnesota Iowa Missouri	4,350 3,693 5,293 2,169	4,581 3,758 5,882 2,271	348 273 467 164	352 291 477 192	1,050 2,820 3,755 1,751	1,125 3,253 4,437 1,668	98 201 271 114	125 352 335 82	5,400 6,513 9,049 3,920	5,706 7,011 10.319 3,939	444 475 738 278	477 643 813 274
North Dakota South Dakota Nebraska Kansas	669 2,031 5,646 4,416	813 2,313 6,037 4,896	32 113 406 366	45 171 485 348	1.483 951 3,060 2,132	1,724 1,036 2,808 2,099	81 69 134 268	187 102 1 60 163	2,152, 2,982 8,726 6,548	2,537 3,349 8,845 6,995	113 182 540 633	232 273 645 511
SOUTHERN Delaware Maryland Virginia West Virginia	503 859 1,345 250	460 828 1.379 269	37 63 97 19	40 69 117 23	159 477 694 60	184 517 741 70	12 47 74 6	25 31 60 7	662 1,336 2,039 310	644 1,345 2,120 338	48 109 171 25	. 65 100 177 30
North Carolina South Carolina Georgia Florida Kentucky Tennessee	2,510 554 2,281 1,215 1,658 1,082	2,653 577 2,268 1,260 1,698 1,111	208 40 175 100 308 72	225 47 188 114 99 88	2.082 680 1.626 5,031 1.266 863	2,214 599 1,574 4,448 1,400 928	213 69 106 192 35 33	349 81 120 1 56 25 41	4,593 1,235 3,908 6,246 2,924 1,946	4,867 1,176 3,842 6,708 3,098 2,039	418 108 280 292 344 106	574 128 308 272 124 129
Alabama Mississippi Arkaneas Louisiana Oklahoma Texas	1,975 1,295 2,661 614 2,377 6,861	2,083 1,322 2,706 637 2,363 7,712	176 113 185 80 229 592	182 123 243 67 286 617	696 981 1,496 1,094 1,137 4,063	655 1,111 1,553 1,284 1,191 4,268	32 21 35 17 150 307	22 12 38 22 119 368	2,671 2,276 4.1 57 1,708 3.515 10,923	2,737 2,433 4,259 1,921 3,554 11,981	208 134 220 77 379 898	204 135 281 89 406 1.004
WESTERN Montana Idaho Wyoming Colorado	929 1,084 664 2,649	664 1,154 610 3,029	22 81 24 216	55 96 52 178	625 1,662 163 1.321	742 1,781 157 1,184	24 67 5 65	50 107 20 99	1,554 2,745 827 3,969	1,606 2,935 767 4,213	46 148 29 282	105 203 71 278
New Mexico Arizona Utah Nevada	974 744 567 142	1.048 819 576 218	62 64 50 14	64 68 38 21	485 1.182 188 102	483 1.048 179 115	62 55 13 6	56 36 19 8	1,459 1,926 755 244	1,529 1,865 755 333	124 119 63 20	121 104 67 28
Washington Oregon California Alaska Hawaii	1.233 738 5,193 9	1,396 755 5,515 8 88	110 64 407 1 7	104 60 452 1 7	2,457 1,546 12,857 20 493	2,420 1.557 13,344 19 499	140 134 992 2 42	222 177 934 2 42	3,689 2,265 18,050 29 585	3,816 2,312 18,859 27 588	250 198 1,399 2 50	326 237 1,386 3 50
UNITED STATES	84,131	89, 623	6,763	7,137	76,761	80,364	5,305	5,845	160,893	169,987	12,068	12,982

^{1/} Sales of farm products include receipts from commodities placed under nonrecourse CCC loans, plus additional gains realized on redemptions during the period. 2/ Estimates as of end of current month. Totals may not add because of rounding.

Information contact: Roger Strickland (202) 219-0806.

Table 32.—Cash Receipts From Farming

				Annual			1990			1991		
	1985	1986	1987	1988	1989	1990	Aug	Apr	May	June	July	Aug
						\$ million						
Farm marketings & GCG toans*	144.114	135.303	141.759	151.082	160,693	169,987	13,756	12.364	11,033	11,784	12.068	12.982
Livestock & Products	69,822	71,553	75.994	79.437	84.131	89,823	7,766	6.915	6.675	6,696	6.763	7,137
Meal animals	38,550	39,081	44,478	46,492	46,857	51,677	4,464	4,130	3,911	3,802	3.658	4,105
Dairy products	18,055	17,724	17,727	17,541	19,396	20,199	1,747	1,480	1,567	1,465	1.516	1,531
Poultry & eggs	11,209	12,701	11,516	12,868	16,372	15,270	1,371	1,139	1,225	1,245	1.207	1,316
Other	2,008	2,048	2,274	2,436	2,507	2,477	184	168	171	184	383	186
Crops Food grains Feed props Cotton (fint & seed) Tobacco	74,293	63.749	65.764	71.645	76.761	80.384	5,990	5.450	5,058	5,088	5,305	5.845
	8,990	5.741	5.776	7,467	8.247	7.876	884	291	304	906	1,152	861
	22,591	16.911	14.576	14.298	17,061	19.116	1,314	1.310	1,094	1,147	1,038	1.341
	3,687	3.371	4,189	4,546	5.040	6.234	219	210	156	105	80	204
	2,699	1,894	1,816	2,083	2,415	2,738	492	18	0	0	259	459
Oil-bearing crops	12,475	10,614	11,283	13,500	11,866	12,403	539	652	518	375	381	525
Vegetables & melons	8,572	8,865	9,902	9,787	11,461	11,533	1,085	1,291	1,865	1.285	836	1,053
Fruits & tree nuts	6,946	7,252	8,062	9,204	9,257	9,306	758	426	367	817	848	727
Other	8,333	9,101	10,161	10,760	11,415	12,160	702	1,253	953	653	711	678
Government payments Total	7,704	11.813	18.747	14,480	10,887	9,298	-100	1.238	1,054	213	75	64
	151. 81 8	147.116	158.506	165,562	171.780	179,285	13,658	13. 602	12,987	11.997	12.143	13.048

^{*}Sales of farm products include receipts from commodities placed under nonrecourse CCC loans, plus additional gains realized on redemptions during the period.

information contact: Roger Strickland (202) 219-0806.

Table 33.—Farm Production Expenses_

					Cal	endar year					20
	1982	1983	1984	1985	1986	1987	1988	1989	1990		1991 F
						\$ million					
Feed purchased Livestock Purchased Seed purchased Farm-origin inputs	18,592 9,684 3,172 31,447	20,573 8,818 2,690 32,081	19,383 9,487 3,386 32,256	16,949 9,184 3,128 29,261	17.472 9,758 3.188 30.418	17,463 11,842 3,259 32,564	20,393 12,764 3,359 36,515	21,002 13,138 3,558 37,698	20.727 14.737 3.582 39.046	20.000 13.000 3,000 37.000	to 5,000
Fertilizer & time Fuels & oils Electricity Pesticides Manufactured inputs	8.018 7.734 2.041 4.282 22.076	7,055 7,211 1,982 3,870 20,118	8,360 7,296 2,060 4,688 22,404	7,512 6,436 1,878 4,334 20,159	6,820 5,310 1,795 4,324 18,249	6.453 4.957 2.158 4.512 18,077	8,947 5,091 2,278 4,577 18,893	7,249 4,983 1,990 5,437 19,659	7.137 6.951 1.944 5.727 20.759	7,000 6,000 1,000 5,000 20,000	to 7.000 to 3.000 to 7.000
Short-term interest Real estate interest 1/ Total interest charges	11.349 10.481 21,830	10,615 10,815 21,430	10,396 10,733 21,129	8,735 9,878 18,613	7.367 9,131 16,498	8,767 8,187 14,954	6,797 7,885 14,682	6,910 7,781 14,691	6,805 7,667 14,472	7.000 6,000 14.000	to 8,000
Repair & maintenance 1/2/ Contract & hired labor Machine hire & custom work	6.428 9,379 2,026	6,529 8,938 2,213	6,416 9,427 2,566	6.370 10.008 2.354	6.426 9.484 2.099	8.761 9.975 2,105	6,800 10,441 2,350	7.272 11.211 2.674	7,283 12,662 2,634	7,000 13,000 2,000	lo 15.000
Marketing, storage, & transportation Misc. operating expenses 1/ Other operating expenses	4,301 9,145 31,277	3,904 10,961 33,544	4,012 10,331 32,751	4,127 10.010 32.868	3.652 9,759 31,420	4.078 11.327 34,246	3,450 11,404 34,445	4.080 12,446 37.582	3.972 12.236 38.669		to 5,000 to 12,000 to 43,000
Capital consumption 1/ Taxes 1/	24,189 4,010	23,758 4,465	20,847 4,337	19.299 4.542	17.788 4.812	16.740 4,853	17,075 4,848	17,553 6,127	17,545 5,623	1 6.000 5,000	
Net rent to nonoperator landlord Other overhead expenses	6.476 33,67 5	5.211 33,4 34	8.150 33,334	7,690 31.531	6,099 28.499	7,304 28,897	7,445 29,367	7.911 30,590	8,177 31,345	8,000 30.000	10 9,000 10 33,000
Total Production expenses	140.305	139,608	141.874	132,432	125,085	128.737	133.002	140,219	144,291	145.000	to 149.000

^{1/} includes operator dwellings. 2/ Beginning in 1982, miscellaneous operating expenses include other livestock purchases & dairy assessments. Totals may no because of founding. F = forecast.

Information contacts: Chris McGath (202) 219-0804. Robert McElroy (202) 219-0800.

Table 34.—CCC Net Outlays by Commodity & Function

					FI	scaf year				
	1983	1984	1985	1986	1987	1968	1989	1990	1991 E	1992 E
COMMODITY/PROGRAM Feed grains						\$ million				
Corn Grain sorghum Barley Oals Corn & oat products Total feed grains	5,720 814 268 11 2 6,815	-934 76 89 5 6	4,403 463 336 2 7 5,211	10,524 1,185 471 28 5 12,211	12,346 1,203 394 17 7 13,967	8,227 764 57 -2 7 9,053	2,863 467 45 1 8 3,384	2.450 361 -93 -5 8 2.721	2.411 261 62 14 7 2,755	3.811 315 148 26 8 4,308
Wheal Rice Upland cotton	3,419 664 1,363	2,536 333 244	4,691 990 1,553	3,440 947 2,142	2.836 906 1,788	678 128 666	53 631 1.461	806 667 -79	2,817 758 392	1,863 698 431
Tobacco Dairy Soybeans Peanuts	880 2,528 288 -6	346 1,502 -585 1	455 2,085 711 12	253 2,337 1,597 32	-348 1,168 -476 8	-453 1,295 -1,676 7	-367 679 -86 13	-307 505 5 1	-237 783 102 -4	-79 410 20 -3
Sugar Honey Wool	49 48 94	10 90 132	184 81 109	214 89 123	-65 73 152	-246 100 1/ 5	-25 42 93	15 47 104	-2 23 173	-27 18 198
Operating expense 3/ Interest expenditure Export programs 4/ 1989/89 Disaster/	328 3,525 398	362 1,064 743	348 1,435 134	457 1,411 102	535 1.219 276	614 425 200	620 98 -102	818 832 -34	634 757 667	724 573 1,322
Livestock Assistance Other	_1,542	0 1,295	-314.	0 486	0 371	0 1,665	3.919 110	2/ 181 609	148 905	1,446
Total	18,851	7,315	17.683	25.841	22.408	12,461	10,523	6,471	10,589	11,913
FUNCTION Price-support loans (net) Direct payments 5/	8.438	-27	6,272	13,628	12,199	4.579	-928	-399	267	434
Deficiency Diversion Dairy termination Other Disaster	2.780 705 0 0 115 3.600	012 1,504 0 0 1 2,117	0,302 1,525 0 0 0 7,827	8,166 64 489 27 0 6,746	4.833 382 587 60 0 5.862	3,971 8 260 0 6 4,245	5,798 -1 168 42 4 6,011	4.178 0 189 3 0 4,370	6,203 0 97 14 0 6,314	6,695 0 1 16 9 6,712
Total direct payments	0	2,117	7,027	0,740	0,002	4,245	3,388	2/ 5	8	0,712
1988/89 crop disaster Emergency livestock/ forage assistance Purchases (net)	0 2.540	1.470	1.331	0 1.870	0 -479	31 -1,131	533 116	156 -48	138 594	2 534
Producer storage payments	964	268	329	485	832	658	174	185	1	26
Processing, storage, & transportation	665	639	657	1,013	1,659	1,113	659	317	299	213
Operating expense 3/ Interest expenditure Export programs 4/ Other	328 3,525 398 -1,607	362 1.064 743 679	346 1,435 134 -648	457 1,411 102 329	535 1,219 276 305	614 425 200 1,727	820 98 -102 -46	618 632 -34 669	634 757 567 990	724 57 3 1,322 1,373
Total	18.851	7,315	17.683	25,841	22,408	12,461	10,523	6,471	19,589	11,913

^{1/} Fiscat 1988 wool & mohair program outlays were \$130,635,000 but include a one—time advance appropriation of \$126,108,000, which was recorded as a wool program receipt by Treasury. 2/ Approximately \$1.5 billion in benefits to farmers under the Disaster Assistance Act of 1989 were paid in generic certificates & were not recorded directly as disaster assistance outlays. 3/ Does not include CCC Transfers to General Sales Manager, 4/ Includes Export Guarantee Program. Export Guarantee Program.—Credit Reform, Direct Export Credit Program. Market Promotion Program, & CCC Transfers to the General Sales Manager. 5/ Includes cash Payment-only. Excludes payment-in—kind in fiscal 83–85 & generic certificates in fiscal 86–90. E = Estimated in the fiscal 1992 Mid-Session Review based on June, 1991 supply & demand estimates. Minus (-) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds).

Information contact: Richard Pazdalski (202) 447-5148.

Food Expenditures

Table 35.—Food Expenditure Estimates

	Annual				1991			1991 year-to-date		
	1988	1989	1990	Aug	Sept P	Oct P	Aug	Sept P	Oct P	
				\$ bi	Illon					
Sales 1/										
Otf-premise use 2/	255.7	272.1	286.3	25.7	23.6	24.4	194.8	218.4	242.8	
Meals & snacks 3/	196.5	205.9	220.3	21.1	18.9	19.5	153.0	171.9	191.4	
				199	0 \$ billion					
Sales 1/										
Off-premise use 2/	290.2	289.5	286.2	25.2	23.2	24.0	189.1	212.2	236.2	
Meals & snacks 3/	215.2	215.6	220.2	20.3	18.2	18.7	148.6	166.8	185.4	
			Pe	ercent chan	ge from year	earlier (\$ bl	1.)			
Sales 1/										
Off-premise use 2/	4.8	8.4	5.2	2.8	-0.3	2.9	3.1	2.7	2:7	
Meals & snacks 3/	8.7	4.8	7.0	4.8	3.0	5.3	3.7	3.7	3.9	
			Pe	rcent chan	ge from year	earlier (199	0 \$ bil.)			
Sales 1/										
Off-premise use 2/	0.6	-0.2	-1.1	1.2	· -1.8	2.2	-0.3	-0.5	-0.2	
Meals & snacks 3/	4.4	0.2	2.1	1.5	-0.2	2.2	0.3	0.2	0.4	

^{1/} Food only (excludes alcoholic beverages). Not seasonally adjusted. 2/ Excludes donations & home production. 3/ Excludes donations, child nutrition subsidies, & meals furnished to employees, patients, & inmates. P = preliminary.

NOTE: This table differs from Personal Consumption Expenditures (PCE), table 2, for several reasons: (1) this series includes only food not alcoholic beverages & pot food which are included in PCE; (2) this series is not seasonally adjusted, whereas PCE is seasonally adjusted at annual rates; (3) this series reports sales only, but PCE includes food produced & consumed on farms & food furnished to employees; (4) this series includes all sales of meals & snacks. PCE includes only purchases using personal funds, excluding business travel & entertainment. For a more complete discussion of the differences, see "Developing an Integrated Information System for the Food Sector, "Agr.-Econ. Rpt. No. 575, Aug 1987.

Information contact: Alden Manchester (202) 219-0880.

Transportation

Table 36.—Rail Rates, Grain & Fruit-Vegetable Shipments

	Annual			1990				1991		
	1988	1989	1990	Sept	Apr	May	June	July	Aug	Sept
Rail freight rate index 1/ (Dec. 1984=100) All products Farm products Grain Food products	104.8 105.6 105.4 103.2	106.4 108.4 108.7 103.9	107.5 110.4 110.1 105.4	107.3 111.0 110.6 104.7	109.6 112.4 112.0 108.3	109.6 P 111.8 P 111.2 P 108.2 P	109.5 P 111.8 P 111.2 P 108.2 P	109.5 P 113.1 P 112.9 P 108.2 P	109.4 P 112.6 P 112.2 P 107.3 P	109.5 P 111.9 P 112.2 P 108.7 P
Grain shipments Rail carloadings (1,000 cars) 2/ Barge shipments (mil. ton) 3/ Fresh frult & vegetable shipments 4/ 5/ Piggy back (mil. cwt) Rail (mil. cwt) Truck (mil. cwt)	30.7 3.2 2.3 2.6 42.6	28.4 3.3 2.2 2.6 42.3	27.8 3.8 1.8 2.3 41.5	24.0 3.8 1.8 1.7 37.9	24.9 4.0 1.1 1.4 42.5	20.8 P 3.7 1.6 2.6 48.0	24.5 P 3.6 2.2 3.1 45.7	25.5 P 4.4 2.0 1.9 46.0	27.6 P 3.8 1.7 . 0.7 41.7	27.4 P 3.3 1.6 1.6 36.9
Cost of operating trucks hauling produce 4/ Fleet operation (cts./mile)	118.4	123.4	130.5	137.5	128.1	127.6	124.6	124.7	122.6	122.6

^{1/} Department of Labor, Bureau of Labor Statistics. 2/ Weekly average; from Association of American Railroads. 3/ Shipments on Illinois & Mississippi waterways. U.S. Corps of Engineers. 4/ Monthly average, Agricultural Marketing Service, USDA, 5/ Preliminary data for 1990 & 1991. P = preliminary.

Information contact: T.Q. Hutchinson (202) 219-0840.

Indicators of Farm Productivity

Table 37.—Indexes of Farm Production, Input Use & Productivity 1/

	1982	1983	1984	1985	1986	1987	~1988	1989	1990 2/	1991 2/
					1	977=100				
Farm output	116	96	112	118	111	110	102	114	117	120
All livestock products 3/	107	109	107	110	110	113	116	116	117	119
Meat animals	101	104	101	102	100	102	105	104		104
Dairy products	110	114	110	117	116	116	118	1.17	120	121
Poultry & eggs	119	120	123	128	133	144	148	153	165	168
All Crops 4/	117	88	111	116	109	108	92	107	113	111
Feed grains	122	67	116	134	123	106	73	108	112	107
Hay & Torage	109	100	107	106	106	102	89	101	101	108
Food graine	138	117	129	121	107	107	98	107	136	105
Sugar Crops	96	93	95	97	108	111	105	105	108	114
Cotton	85	55	91	94	69	103	107	86	108	127
Tobacco	104	75	90	81	63	62	72	71	85	84
Oil crops	121	91	106	117	110	108	89	106	107	113
Cropland used for crops	a101	68	99	98	94	88	87	90	90)-1°
Crop production per acre	116	100	112	120	118	123	106	1191	126	
			19							
Farm input 5/	99	96	96	92	89	89	87	88		
Farm real estate	102	101	99	97	96	95	94	93		
Mechanical power & machinery	92	89	86	80	77	73	72	73		
Agricultural chemicals	118	102	120	115	109	111	111	122	_	
Feed, seed, & livestock										
purchases	107	103	106	102	110	117	1/10	119	_	
Farm output per unit of Input	1117	·· 99	117	128	124	124	117	128		
Output per hour of labor										
Farm 6/	125	99	121	139	139	142	134	148	3-	<u></u>
Nonfarm 7/	99	102	105	106	108	109	111	112		-

1/ For historical data & indexes, see Economic Indicators of the Farm Sector: Production & Efficiency Statistics, 1988, ECIFS 5–6, 2/ Preliminary indexes for 1990 based on Crop Production: 1990 Summary, released in January 1991, & unpublished data from the Agricultural Statistics Board, NASS, 3/ Gross livestock production includes minor livestock products not included in the separate groups shown. It cannot be added to gross crop production to compute farm output, 4/ Gross crop production includes some miscellaneous crops not in the separate groups shown. It cannot be added to gross livestock production to compute farm output. 5/ includes other items not included in the separate groups shown. 6/ Economic Research Service, 7/ Bureau of Labor Statistics. — = not available.

Information contact: George Douvelie (202) 219-0432.

Food Supply & Use

Table 38.—Per Capita Consumption of Major Food Commodities 1/

Commodity	1983	1984	1985	1986	1987	1988	1989	1990 2/
				F	ebnuo'			
Red meats 3/4/5/	123.0	123.6	124.9	122.2	117.4	119.5	115.9	112.3
Beef	74.1	73.6	74.6	74.4	69.5	68.6	65.4	64.0
Veal	1.3	1.5	1.5 1.1	1.8 1.0	1.3 1.0	1.1 1.0	1.0 1.1	0.9 1.1
Lamb & mutton	1.1 47.4	1.1 47.2	47.7	45.2	45.6		48.4	46.3
Pork	45.8	47.2	49.4	51.3	55.5	48.8 57.4	60.8	63.8
Poultry 3/4/5/ Chicken	37.0	38.2	39.0	40.7	43.4	44.7	47.3	49.4
Turkey	6.9	9.0	9.6	10.6	12.1	12.6	13.5	14.6
Fish & shellfish 4/	13.3	14.1	15.0	15.4	18.1	15.2	15.6	15.4
Eggs 5/	33.0	33.0	32.4	32.2	32.2	31.2	29.9	29.6
Dairy products							40.0	04.7
Cheese (excluding cottage) 3/6/	20.6	21.5	22.5	23.1	24.1	23.7	23.9	24.7 11.1
American	11.6	11.9 6.6	12.2 8.5	12.1 7.0	12.4 7.6	11.5 8.1	11.1 8.5	9.1
Italian	5.3 3.7	3.9	3.7	4.0	4.1	4.1	4.3	4.4
Other chasse 7/	4.1	4.1	4.1	4.1	3.9	3.9	3.6	3.4
Cottage cheese Beverage milke 3/	228.5	227.3	229.7	226.6	228.5	222.3	224.3	221.5
Fluid whole milk 8/	130.3	126.9	123.4	116.5	111.9	105.7	97.6	90.3
Fluid low/at mllk 9/	85.6	88.9	93.7	98.7	100.6	100.5	106.5	108.3
Fluid skim milk	10.8	11.6	12.0	13.5	14.0	16.1	20.2	22.9
Fluid cream products 10/	5.8	8.2	6.7	7.1	7.1	7.1	7.3	7.1
Yogurt (excluding frozen)	3.3	3.7	4.1	4.4	4.4	4.7	4.3 1 6. 1	4.1 15.7
Ice cream	18.1	18.2	18.1	16.4 7.2	18.4 7.4	17.3 8.0	6.4	8.7
ice milk	6.9	7.0	6.9	1.2	7.79	0.0	0.4	0.7
Ali dairy products, milk equivalent, milkfat basis 11/	574.2	583.3	595.1	592.8	602.6	584.5	566.5	571.6
Fats & oils — Total fat content	60.0	58.9	64.3	64.3	62.9	63.0	01.1	62.7
Butter & margarine (product weight)	15.3	15.3	15.7	18.0	15.2	14.8	14.6	15.3
Shortening	18.5	21,3	22.9	22.1	21.4	21.5	21.5	22.2
Lard & edible tallow (direct use)	4.2	3.8	3.7	3.5	2.7	2.0	2.7	3.0
Salad & cooking oils	23.6	19.9	23.5	24 2	25.4	25.8	24.0	24.2 92.2
Fresh fruits 12/	93.0	91.7	89.3 12.7	95.8 12.9	101.2 13.6	99.1 13.2	99.7 13.4	13.5
Canned truit 13/	12.8	12.3 2.4	2.7	2.7	2.6	2.9	3.1	3.1
Dried fruit	2.4 2.9	3.0	3.3	3.6	3.9	3.8	4.8	4.3
Frozen fruit Frozen Citrus Juices 14/	41.7	35.6	40.5	43.3	40.2	40.1	34.3	27.2
Vegetables 12/			,,,,					
Fresh	82.5	89.6	90.5	90.9	95.4	98.7	101.0	95.2
Canning	79.5	90.7	87.5	87.7	87.1	83.1	90.5	92.7
Freezing	14.4	17.4	17.0	15.8	16.8	17.9	16.9	18.0
Potatoes, alf 12/	118.4	121.9	122 5 5.4	125.8	125.6 4.5	122.2 4.1	127.4 4.1	130.8 4.7
Sweetpolatoes 12/	4.0	5.0		4.4 6.4	6.4	6.9	7.0	8.2
Peanuls (shelled)	5.9 2.3	6.1 2.4	6.3 2.4	2.3	2.2	2.3	2.3	2.5
Tree nuts (shelled) Flour & cereal products 15/	149.0	150.8	158.0	163.9	173.4	172.9	175.0	185.4
Wheat flour	117.7	119.2	124.7	125.7	129.9	130.0	129.2	137.6
Rice (milled basis)	9.8	8.6	9.1	11.7	13.9	14.4	15.6	18.6
Caloric sweeteners 16/	124.3	127.0	130.0	129.1	132.6	133.2	134.3	137.5
Coffee (green bean equiv.)	10.1	10.2	10.5	10.5	10.2	₽.8	10.3	10.2
Cocoa (Chocolate liquor equiv.)	3.2	3.4	3.7	3.8	3.9	3.8	3.9	4.2
dille annuale antalturatable values ethomologi	manad Comm			o a meta Leta Le		n ovnorte n	an food u oo	& anding

1/ In pounds, retail weight unless otherwise stated. Consumption normally represents total supply minus exports, nonfood use, & ending stocks. Calendar-year data except fresh citrus fruits, peanuts, tree nuts, & rice, which are on crop-year basis. 2/ Preliminary.
3/ Total may not add due to rounding. 4/ Boneless, trimmed weight. 5/ Excludes shipments to the U.S. territories. 6/ Natural equivalent of cheese & cheese products. Total product weight is greater than natural equivalent because processed cheese & cheese food are made from natural cheese & other dairy products. Includes miscellaneous cheese not shown separately. 7/ includes Swiss, Brick, Munster, cream, Neutonatel, Blue, Gorgonzola, Edam, & Gouda. 8/ Plain & flavored. 9/ Plain & flavored & buttermilk. 10/ heavy cream, light cream, half & half, & souf cream & dip. 11/ includes condensed & evaporated milk & dry milk products. 12/ Farm weight. 13/ Excludes pineappte & berries. 14/ Single strength equivalent. 15/ includes tye, corn, oat, & barley products. Excludes quantities used in alcoholic beverages, corn sweeteners, & luel. 16/ Dry weight equivalent.

Information contact: Judy Jones Putnam (202) 219-0870.

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